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IT

Next address until Friday— Dooly's Hotel
Birr

Telephone No. :—
Dublin 62286.

ÁRD-MHÚSAEUM NA h-ÉIREANN
(National Museum of Ireland),
SRÁID CHILL DARA
(Kildare Street)

BAILE ÁTHA CLIATH (DUBLIN), ... 19......

Hymenoptera from Miss A. R. Crawford.
August 1929.

Abia candens ♀. Cranmore, AN.
10-6.29.

Athalia lineolata ♂ " " " "

Nomada ruficornis ♀ " " " 30.5.29.
A very dark var., with black mesonotum & yellow spots on 2nd segment very widely spaced!

Crabro chrysostomus ♂ " " " " 11.6.29.

C. leucostomus ♀ " " " " 24.5.29.

Amblyteles armatorius ♂ Portballintrae, AN.
9.7.29.

Demopheles caliginosus Grav. ♀ (agrees with diagnosis & Brauns coll. ♀!)
Cranmore, AN. 29.5.29.

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WHITE'S HOTEL,
WEXFORD.

July 23rd 1929

My dear Stelfox,

Thanks for your letter received in Cork yesterday.

I am glad to know that the specimen of *A. carbonaria* is correct and I hope that the small *Halictus* will prove to be *H. ~~minutissimus~~* = *punctatissimus* ♂.

I caught the ~~H.~~ *A. carbonaria* as it landed, apparently to enter a burrow, on a bare sandy spot about half-way up the slope of the upper pit, so the species evidently nests in the place. I was there only about an hour (1.30 to 2:30 P.M.) when a thick mist came on and dispersed all bees.

The little Halictus was resting on the face of a cutting in the sand.

If you visit the place please examine a couple of old pits overgrown with brambles. There are some very large burrows in them but it was too cloudy when I was there for the insects to come out.

I got here last night but this has been a very wet day here and I am leaving tomorrow morning.

There is a large colony of bees on the wall of the Wexford bridge, on the sand-pit end, as on Scarawalsh Bridge!

The specimen of *Megachile centuncularis* was taken flying along the stones of the mud-capped fence by the roadside at Enniscorthy, the earth on top of the fence is almost "honey-combed" by a great colony of bees.

The enclosed few insects were all taken after 8 P. M. on the evening mentioned!

Glad to hear that you had a good day in the Deputy's Pass.

With kind regards to all

Yours sincerely

R. A. Phillip

Hymenoptera sent by Miss Agatha Crawford Oct 1930.

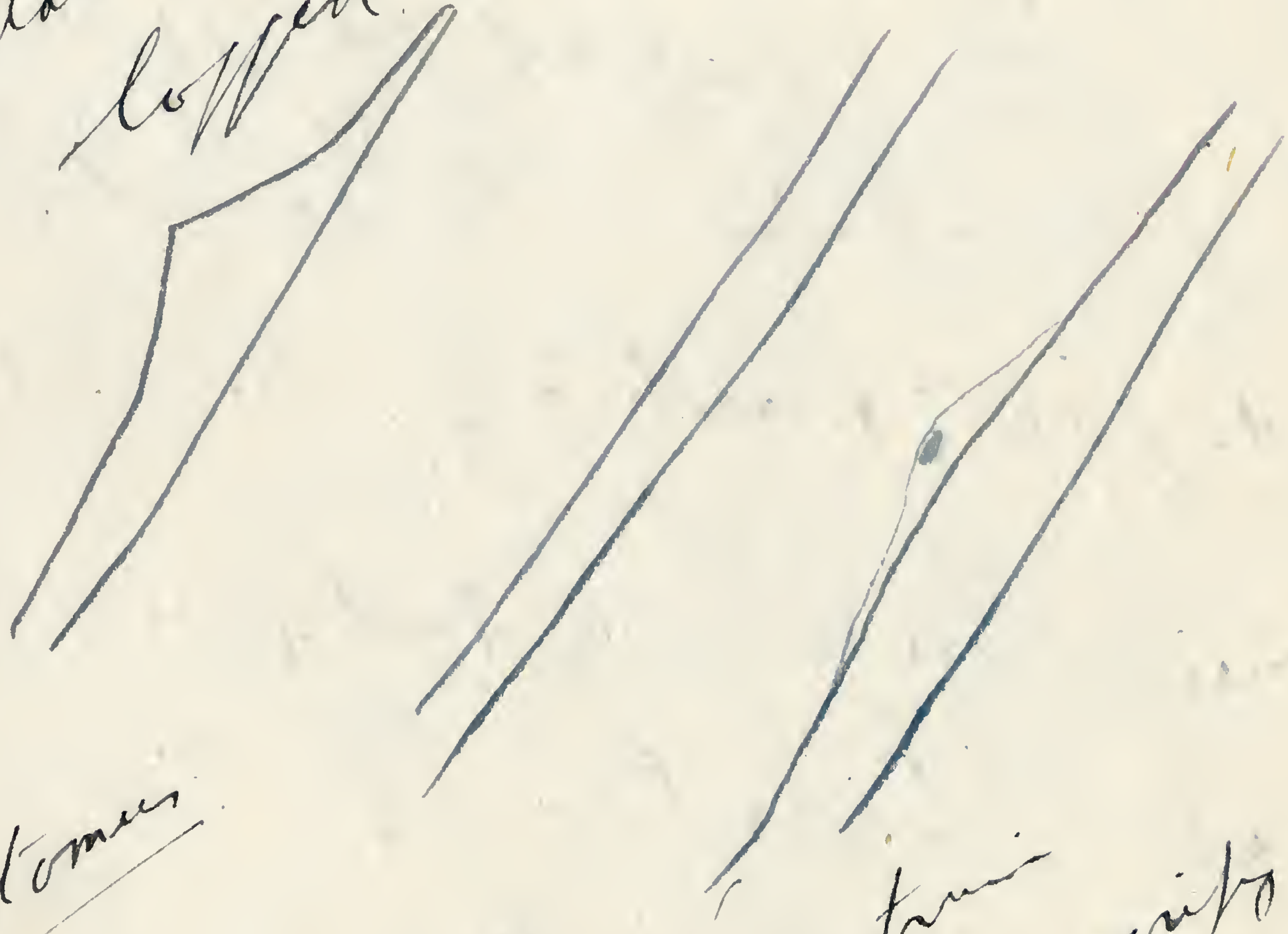
Bombus hortorum ♂ Belfast. 27.8.29!
Vespa norvegica ☿. " (nest). 5.8.30!
V. sylvestris ♀. " 3.5.30.
V. germanica ☿ " 5.8.30.
V. vulgaris ♀ " 3.5.30.
Bombus terrestris small ♀ " 27.8.29.
And. jacobi v. scotica ♂. " 7.5.28.
B. agrorum ☿ " 27.8.29.
Halictus calceatus ♂. " 25.8.29.
Odynerus (immature) ♂
(? pictus or parietinus)
Belfast (bred) 12.6.30.
O. parietinus Belfast. 13.6.30.
And. jacobi v. scotica ♀. " 13.5.30.
very fresh!
Halictus rubicundus fresh ♀ " 29.8.29.
Crabro chrysostomus ♀. " 7.8.29.
And. sericea ♀ Portballintrae A.N. 26.8.29.
dug out of nest in sand.
Odynerus pictus ♀. Belfast. 4.6.30.
And. jacobi ♂, very fresh, " 21.4.29.

P.T.O

Tenthredopsis "nigricollis" Cam.
"On spinach". ♀. " 12.6.30.

Chasmias motatorius ♀.
In rotten log, Cranmore, Belfast. 24.1.30.
Halictus rubicundus ♀. Belfast 1930.
V. germanica ☿ with ·T· on face. " 6.9.30.
V. rufa ☿. 10.6.29. } Belfast.
V. austriaca. 13.6.30. }
Crabro chrysostomus ♂ 11.6.29. "
very dark!
Formica fusca ☿ found carrying an
Aphide 13.5.30.
Myrmica ruginodis ♂ & ☿.

Important records
lopped!



C. chrysostomus
And. sericea
Odynerus. pictus new Antrim
& O. parietinus records for
while both Halicti [illegible]
old ? records !
A.W.S.

Spanish Point Co. Clare
9.11.1930. R.A. Phillips.

Ichneumon suspiciosus ♀.

Colpognathus divisus 2 ♀♀

Shaken out of roots of
Ammophila in sanddunes.

With postcard dated 3/3/30.

List of Lissonotae & Banchides sent to Dr. Roman, Feb. 1930.

Nrs wanted underlined. A.Ru.

=89 & 90.
~~1. & 2.~~ L. parallela ♂ & ♀. Brittas Bay, Wl. 7.8.1929.
This ♀ is the blackest specimen I have taken!

91
~~3.~~ L. irrigua or nitida ? ♀. Cahore, Wx. 15.7.1929.
To judge from descriptions, both ought to be the same species, but I have nothing of this short-tailed species.

92
~~4.~~ L. sp.? ♀. might be a freak of L. bellator but unlike any other specimen I have seen. Kilcarry, CW. 25.7.1927.
Might be a var. of carbonaria Hgn, but I am not quite sure the abd. is normal.

93 & 94
~~5. & 6.~~ L. deversor ♀ & ♂. Deputys' Pass, Wl. 19.7 & 24.7.1929.
I think they are L. palpalis Thu, though having never before seen the species, I may be mistaken. Palpalis ♂ undescribed.

95
~~7.~~ L. sp.? ♀. (Cf. L. varicoxa). Clone, Wx. 17.7.1927.

96
~~8.~~ L. sp.? ♀ (Cf. L. humerella). Rathdrum Wl. 8.7.1926. ~~Upper Liffey, Wl. 2.9.1927.~~
7 & 8 are the same species, L. buccator Thunb. The 1st abd'l segm. is somewhat different in both, but this is accidental; I have seen it before in L. carbonaria & melania, who are also the same species.

97
~~9.~~ L. sp.? ♀. Upper Liffey, Wl. 2.9.1927.
L. buccator Thbg, too.

98
~~10.~~ L. sp.? ♂. Glen of Imaal, Wl. 31.7.1927.
A melanistic ♂ of L. errabunda Hgn (compared with types).

99 & 100

~~11. & 12.~~ L. errabunda ♂ & ♀. Rathdrum, Wi. 8.7.1927.

11 is errabunda like 10. Nr 12 may be errabunda, but if so it is very melanistic & smaller than the ♀ types.

101

~~13~~. L. errabunda (?) ♀ Sand dunes, Buttas Bay, Wi. 7.8.1929.

= Nr 12 ♀, but has yellow points on vertex, hind trochantr red.

102.

~~14~~. L. sp.? ♀ (? L. dubia). Ballyhenry, Wi. 29.8.1926.

Not dubia, who has a terebra longer than the body (not rare on spruce here). Very near a n. sp. I have from S. Sweden & from Germany, living on Arayreuthia.

103.

~~15~~. L. sp.? ♀ (cf. L. transversa). Lucan, Du. 5.8.1923.

This ♀ has very strongly punctured abdomen (seg. 2 & 3!)

L. buccator Thunb. ♀. [No. 103 formerly named varicosa by Rev. W.F.J.]

No. ~~104~~ 103 was smashed to pieces on return journey! A.W.S.

104.

~~16~~. L. sp.? ♀ (cf. No. 15). Lucan, Du. 5.8.1923.

Abdomen less strongly punctured! but ~~of~~ with the same kind of sculpture.

105. L. buccator, w. rudimental vertical dots. [104 formerly named humerella by Rev. W. F. Johnson.]

~~17~~. L. sp.? ♀ (? cf. Nos. 15 & 16). Drumgoff, Wi. 29.7.1929.

= Nr 16. It is remarkable none of the present specimens have the two red facial stripes not rare in Sweden & used as a character for varicosa (Thoms.)

→ NB. No. 95 has red facial stripes! A.W.S.

106.

~~18~~. L. sp.? ♀ with short terebra. ? bred from pine cones brought home from Powerscourt, Wi. 21.8.1927.

L. culiciformis Gr., dark var.

107.

~~19~~. L. clypealis (?) ♀. Clara, Wi. 29.7.1929.

Correct.

108.
~~20~~. L. sp. ♀. Clonegal, CW. 9.8.1929.

L. ? punctiventris Thn. Have no material for comparison at hand.

✓
109
~~21~~. L. sp.?. Very small ♀. Sand dunes, Portrane, DU. 31.8.1928.

Unknown to me. Antennæ broken, due to the short needle.

✓
110
~~22~~. L. sp.? ♂. Taken with No. 21! Looks like a small L. errabunda?

Sculpture of abd. much smoother than in errabunda. May belong to No. 21.

✓
111
~~23~~. L. sp.? ♂ with elongate abdominal segments.
Meeting of the Waters, WI. 23.7.1927.

✓ May be a small & dark L. clypeator Gr. (commixta Hgn).

112.
~~24~~. Exetastes sp.? ♀. (? var. of E. guttatorius with black scutellum)
Kildavin, CW. 9.8.1929.

✓ E. illusor Gr. ♀ var pedibus nigris. Ant. thinner than in adpressorius Thunb.

113.
~~25~~. E. fornicator (?) ♀. Mt. Butler, NT. 17.8.1927.

✓ Correct.

114.
~~26~~. Banchus pictus. ♂ Meeting of the Waters, WI. 25.3.1928.

✓ B. crefeldensis Ulbr. ♂. The northernmost locality known (A. Seyrig has described the ♀).

115.
~~27~~. B. volutatorius ♂. Cahore, WX. 21.7.1929.

✓ Correct, ♂.

116.
~~28~~. B. moniliatus. Ballyvoyle, WA. 27.7.1928.

✓ B. volutatorius L. ♀.

117
~~29~~. B. sp.? (? compressus). Powerscourt, WI. 19.6.1925.

B. femoralis Thn ♂.

4, THURLESTONE ROAD,
NEWTON ABBOT,
DEVON.

2.x.30

Dear Stelfox,

I sent you a P.C. to-night before post time to correct an item in the list of spp. I had sent previously.

Your vy flat larva on Alnus is that of Platycampus luridiventris. Pamphilius larvae are vy different. Those I have seen have only the 3 pair of true legs – no prolegs on abd. segs – & live either in tubes or cases made of leaves or else gregarious in webs – queer beast, almost repulsive. Your other less flat larvae are one or two species of Nematinae. I have bred the two commoner ones of the 3 on alder, & also the one on birch, (= N. acuminatus) the larva of which being black or sooty & not as Enslin's book describe it, puzzled me for a season or two before I got the imago. [I sent you ♂♂ of this caught by John this year] The nearly all green, & not gaudy, larva on alder of the form of septentrionalis is varus as you suggest. Mem. If you can breed the black Croesus larva of birch, please send me a ♀ or two. I only bred the 6 ♂ from those you sent me a year or two ago. There are also a number of common Tenthredinini larvae on alder – things like Rhogogaster viridis – but I have never tried to breed those.

Your pink-striped thin larva on Salix is pretty sure to be Pteronidea curtispina & your white waxy one on alder may be

4, THURLESTONE ROAD,
NEWTON ABBOT,
DEVON.

Empria pulverata, unless it is a vy young *Cimbex* or *Trichiosoma* some spp. of which I believe are two seasons in larval state. We have really had almost unspeakable weather this September, & August, except for that super-tropical spell of a few days, was as bad. When the last bad spell of weather began in September, i.e. when we still had some sun & warmth occasionally our 2nd brood of *Pieris brassicae* were fresh & abundant about the house: since then apparently every one has been killed & there is not an egg or larvae to be found on the cabbages in the garden next to ours, where usually there are any quantity. I should think it will be as rare as a 'Camberwell beauty' next Spring!

I am even beginning to doubt whether I shall get to the *Halictus angusticeps* locality — 3 hours each way! — to dig out ♀♀ this year. I may trust to the chance of going there next April & catching them abroad.

Yours very truly
R.C.L. Perkins.

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BAILE ÁTHA CLIATH (DUBLIN),..................................19.....

Insects sent by George Barnett from
Owenreagh Station, Co. L.D.
June 1930.

Andrena fucata 1 ♀.

A. lapponica? 3 ♀♀ covered with yellow pollen.

A. coitana 2 ♂♂.

A. albicans 1 old ♂.

Bombus lapidarius ☿.

Apis sericea ♂ & ♀.

Tenthredo arcuata ♀.

Amblyteles oratorius ♂.

Pimpla turionellae ♀.

W. Galway, Co. WG. R. A. Phillips. 1.9.1929.
Sawfly.
Lissonota cylindrator ♂. *L. basalis* ♂. *Glypta mensurator* var. ? with long ovipositor.
Pimpla brevicornis v. large ♀. Ichneumon 2 spp. ♀♀. 1♂ ?Spilichneumon.

Pompilus gibbus large ♀. *Crabro vagus* ♀.

Shankill, Co. Dn. A. A. Lisney. 5.9.1929
Polysphincta ♀, ? a blackish var. of *multicolor* Grav.
Hemiteles ? 2 spp.

July
Do. do. AAL. 10.7.1929.
Pemphredon shuckardi ? ♂ + ♀, with very polished + clearly punctured thorax.

W. Balbriggan, Co. Dn. A. A. Lisney. 12.8.1929.
Ichneumon spp.: 1♂ + 1♀

Valentia Island, Co. SK. Miss M. J. Delap.
Sawfly
Platylabus dimidiatus ♀.

DIARY OF
INSECTS &c., CHIEFLY
HYMENOPTERA
collected by A. W. Stelfox
1929–30–31.

VOL. 3.

EASTER 1929.

28th March 1929. A glorious hot sunny day after a frosty night.

Ballyhenry quarry, W1. about noon.

Bombus sp. heard.

Andrena apicata? ♂♂ seen.

Halictus rubicundus & tumulorum ♀♀ seen.

No sawflies: willows very backward & only a few out.

crefeldensis Ulbr. fide A. Roman No. 114.

Banchus pictus ♂♂ flying over gorse in quarry.

28.3.29.

Gold Mine Valley, W1. 1-30 till 4 pm.

Bombus jonellus ♀, B. lucorum ♀♀ seen.

Andrena minutula, 1 ♀ in oak wood.

Vespa vulgaris ♀ taken & released

No sawflies! Willows: none yet out, very backward.

Cryptopimpla anomala* 2 ♂♂ 1 ♀ flying about Holly in oakwoods.

Mollusks.

Zonitoides excavatus, green form, under log.

* In May 1929 I sent a ♂ & ♀ C. anomala to Dr. A. Roman of Stockholm as a present & in acknowledging same he said that they were correctly named & that the ♂ agreed with the only ♂ in the museum there, but did not agree with Schmiedeknecht's description of ♂ (which I already knew!) AWS.

29th March 1929 (Good Friday). Very hot & not a cloud after frosty night.

Left "Merlin" at 6 AM & drove to Wexford to meet Mr. & Mrs. H. Womersley of Bristol. After breakfast spent an hour in sand-pit at N. end of the wooden-bridge where took:-

Andrena clarkella ♂

A. nigro-aenea ♂♂ numerous & 1 ♀ seen: all v. fresh.

A. minutula 1 ♂.

Other specimens seen may have been A. ~~clarkella~~ gwynana ♂♂.

Halictus rubicundus ♀ seen.

[NB. I presume ~~this~~ this is the sand-pit where Phillips took ♀ Andrena carbonaria in June 1928!]

Next drove to Clone (Scaravalsh Bridge) 3 miles N. of Enniscorthy where spent a couple of hours & took

Vespa vulgaris ♀ seen.

Andrena praecox very fresh ♀ at Salix by R. Bann.

Halictus calceatus ♀

Saw very worn Red Admiral butterfly at N. end of wooden bridge Wexford, several times during stay there in the morning.

30th March 1929. Very hot & sunny all day.
Drove to head of Glenmacnass & walked up to L. Ouler & cliffs of Tonelagee, Wi.
H. Womersley took ♂ Dolerus aeneus ✓RCLP [illegible] at about 1,500 feet: a very early date!!
On cliff at 2000 to 2,200 ft., where still were drifts of snow took amongst liverworts & mosses a Cynipid

31st March 1929. (Easter Sunday). Windy & a slight depression passed over, with a good deal of cloud.
Spent day in Devil's Glen with Womersleys.
One bee ? sp. seen: no ichs.

1st April 1929. A cold, blustery day with sun clouds & slight showers.
Spent most day at Clara, Wi. where nothing seen & in afternoon in Dargle where nothing seen either. Then home.
Ground Ivy in flower in Dargle! Blackthorn out near Arklow.

2nd April 1929. A cold, showery day, with strong N.W. wind but a good deal of hot sun.
Spent afternoon, with Womersleys, along S. cliffs of Howth, Dn. at Drumleck.
Bombus lucorum ♀ seen.
Andrena nigroaenea ♂♂ common.

7th April 1929. A fine mild morning, but depression approaching at 11 AM caused cold & misty rain all day. Drove Palmer's to Ballyhenry, Wi., where saw Bombus lucorum & terrestris ♀♀ at willows. Then to Vale of Clara & over Wicklow Gap & home via Blessington, but nothing else seen.

10th April 1929 (afternoon) with J.A.J. Palmer!. Lower Glenasmole & Bohernabreena, Dn. Very hot sun, but strong cold N. wind.
Too windy for sawflies & none seen. Two ichs. seen but not captured (one was ? Lissonota carbonaria ♀ & at willow).
Andrena clarkella many ♀♀, mostly faded, seen at coombe opp. Mrs. Doyles & opposite Brady's.
A. gwynana ♂♂ & very fresh ♀♀ seen at both places.
A. nigroaenea ♂♂ at first & very fresh ♀ at second place.
A. sericea a few ♂♂ seen opposite Brady's, just below spot where on 5th April 192 I saw a doubtful ♀.

10.4.29 cont. Lower Glencormac.
Halictus rubicundus ♀♀ seen at both places.
Halictus calceatus ♀ seen along river bank.
H. albipes ♀ with last.
H. freygessneri ♀♀ in ravine opposite Mrs. Doyles.
[One very small ♀ only size of nitidiusculus ? this species.
Nomada leucophthalma 2♀♀, one along W. side of river & the other in ravine opposite Mrs. Doyles.
Vespa rufa several ♀♀ in both places.
Salius fuscus ♂♂ both opposite Brady's & opp. Mrs. Doyles
Bombus lucorum many ♀♀, B. terrestris a few ♀♀, & B. jonellus, small ♀ seen or taken.

Willow Wren abundant; also Green-veined White & a few ♂ Orangetip butterflies seen.

→ Is a very small ♀ ~~H. albipes~~, H. freygessneri! AWS. 8.10.29!

~~13th~~ 14th April 1929. A dull cold morning with strong cold S.E. wind; clearing at about mid day, but a high mist robbed sun of almost all heat & little out but a few ♂♂ Andrena. With J.A.J. Palmer!
12 noon till 12.45. Sunny but very cold strong wind.
Ballyhenry Quarry, Wi. Took ♀ Nomada leucophthalma & Palmer a ♂ Andrena nigroaenea. Bombus lucorum 1♀ seen.
1-30 till 2.45. Gold mines Valley, Wi. No sun & very cold. Collected some larvae of Marsh Fritillary but nothing flying. Stitchwort in flower in hedge on road!
3 pm. till 4 pm. Sunny & out of wind.
Left bank of Avonmore (at Ballygarthen gate), Avoca, Wi.
Salius fuscus ♂♂ & 1♀ (P.)
Andrena gwynana 1♀ seen. A. albicans ♂ on dandelion (P.)
A. nigroaenea ♂♂. A. jacobi ♂ on Gorse, others seen.
No sign of any Halicti & no ♀ Andrenas working!
One or two Bombi seen, probably all lucorum.
One black, slender, ichneumon, 3/4 inch long, seen but missed!
Goldilocks in flower at Avoca.

19th April 1929. A beautiful day till 2pm. but after I reached the ground only five minutes sun & then a cold "jam" formed from NE & no more sun.

Marsh in the Quill channel, Kilmacanoge, Wi. 2.30 till 3 pm. Cuckoo Flower out!

Dolerus madidus ♂ & ♀ very fresh.

Andrena albicans ♂♂, A. jacobi ♀ (?), Bombus lucorum & B. terrestris seen on ♂ willow.

Very nice ground as suspected & this & Kilmacanoge marsh should yield some good things – especially sawflies & ichs. (or aculeates later in summer).

20th. April 1929. A cold day with violent NE-E wind, but much sun. MCK, MB & Miss Spiller.

Valley from L. Tay① to L. Dan②, Wi. 11AM till 4pm

Bombus lucorum & jonellus ♀♀ at willows at 2.

Andrena jacobi, ♂ on willow at 2

A. clarkella ♀♀ frequent on ♀ willows at 2.

A. lapponica one very fresh ♀ on moraine at 1.

Vespa norvegica about larches at 2.

Nothing else seen & practically nothing flying owing to skinning wind blowing right down the valley.

Saw one Swallow at L. Dan.

21st April 1929. A very cold day, but almost entirely sunny, though strong wind (E) rendered collecting quite hopeless.

Head of Glenmalure, Wi (at ford of Baravore)

With E.K. Tratman, Riley, Gurzon (who ascended Lug.!) & Mansfield.

Spent most of day working marshes about the moraines but saw only a few Bombus lucorum ♀♀ on willows & one ♂ Dolerus aeneus ✓RCLP. which lit on a leafy willow bush where I was on the look out for early Pteronidea.

Garlic in flower at N' Mt Kennedy.

Bluebells out in Glen of the downs on 23/4/29 ~~Cuckoo Flower~~

28th April 1929. Rain all day & cold. NE wind. Drove to Clara, Wi. on the chance of it clearing but nothing to be seen but a few ♀ B. lucorum.

9.

ARKLOW SPRING TRIP 1929.

(after the boys recovered from chicken-pox!)

30th April 1929. Drove to Arklow.
Ballyhenry quarry, Wi. 1 - 1-30 pm.
Bombus lucorum & B. terrestris (!) ♀♀. Andrena nigroaenea & albicans ♂♂. Halictus rubicundus & H. calceatus ♀♀ seen. Sphecodes divisus ✓ 1 ♀. Nomada marshamella 1 ♂.
No sawflies or ichs. seen. Sunny but cold wind.

Marsh N. of Red Cross, Wi. 2 pm. Sunny
Dolerus oblongus ✓RCLP. 1 ~~♀~~ ♂. (AWS. Oct. 1929.)

Webb's Glen, Ferrybank Wi. 3 till 4.30 pm.
Some sun but mostly cloudy & cold wind (NE).
One ♂ Pontania sp. swept off willows: see R.C.L.P.'s notes of 5/2/30!
[illegible]

Saw Swifts, & heard corncrakes & Sedge Warbler ~~[illegible]~~
Speckled Wood in glen, very torn wings!

[illegible]

10.

1st May 1929. A fine day along coast with cold east wind; but all cloudy west of Carnew.
Drove to Kilcarry Bridge, CW via Gorey & Carnew & home.
Rt. bank of Slaney & glen of Glaslo R. below Kilcarry Br., CW.
12 till 2 pm. Practically no sun & very cold.
Lasius flavus? nest in marsh: a large mound!
L. fuliginosus nest going strong in old stump as before.
Myrmica scabrinodis nest under stone.
Bombus agrorum & lucorum ♀♀ seen.
Andrena albicans ♂♂ & one fresh ♀ on ♀ willow.
A. rosae 1 ♀ on ♀ willow, quite fresh!
A. nigroaenea ♂♂ & ♀♀ abundant on dandelions about bridge during only blink of sun.
Dolerus haematodes ✓RCLP. ♂ clinging to willow
One small ich swept off rushes &c. in marsh.

Cuckoopint & Common Bugle in flower

1.5.29 cont.
Marsh by stream a couple of miles West of Knockbrandon, WX (between Gorey & Carnew.) 2.30 pm. Sunny.
Andrena albicans hundreds of ♂♂. Nomada bifida 1 ♂
Amauronematus 2 spp. ♂♂: see RCLP's notes dated 5.2.30.
~~Pteronidea~~ there labelled "dartmoorensis?" & "mundus?" AWS.
2 ♂♂ flying to willows
Bombus lucorum & agrorum ♀♀ seen.

Cuckoo heard!

Sedge Warbler seen!

1.5.29 cont.
Marsh in fields West of R. Bann, where road from Gorey to Carnew crosses river, WX. 3.0-4.0 pm.
Very sunny but coldish wind mostly.

Dolerus oblongus ✓R.C.L.P. ♂ & ♀.
D. madidus 1 ♂
D. palustris 1 ♂

2nd May 1929. A fine day with much sun except from noon till 3 pm when a lot of clouds about, but very keen wind & little out.
10-30. Marsh between road & railway opposite Glenart Woods, Wi. Absolutely nothing flying!

11.0 AM till 1 pm. Gold mines Valley, Wi.
Nothing seen but a few Bombus & Holly Blue Butterfly; but on returning to car took two sawflies at foot of Monaglogh Valley in usual marsh
Dolerus haematodes ♀ (headless!).
D. oblongus ♀

2.5.29. Drove on to Clara in afternoon, but almost quite dull till 3 pm & only warm & really sunny after 4 pm. When E. wind dropped.
1-30 till 5 pm. Worked oak-wood from Clara bridge to 1 mile below Crony Burn.
Bombus lucorum, agrorum & jonellus ♀♀ numerous at Vaccinium flowers; saw one or two ♂♂ of jonellus.
Psithyrus distinctus several ♀♀ seen.
Andrena albicans ♂♂ seen.
" lapponica fresh ♂♂ & ♀♀ seen.
Halictus rubicundus ♀♀ on sand flat.
Vespa vulgaris, rufa & norvegica numerous ♀♀ mostly at flowers of Vaccinium.
A few species of ichs & one Braconid taken flying over Vaccinium but no trace of Ichneumon [illegible] & no Nomada seen with A. lapponica.
Several Holly Blues seen & Speckled Woods common.

3rd May 1929. Drove to Wexford & back.
A fine sunny day spoilt by cold wind
– East at Arklow. S.W. at Wexford!
12-30 till 2 pm. Sand pit, N. of wooden
bridge, Wexford where R.A.P. took ♀ Andrena
carbonaria on 7.July.28! & a second ♀ on 17.7.29! AWS.
Bombus lucorum only 1 ♀ seen
Andrena sericea ♂♂ in thousands; a few ♀♀ (fresh)
A. nigroaenea ♂♂ & ♀♀, worn. A. albicans 1 ♀ fresh.
Halictus calceatus, rubicundus, nitidiusculus &
tumulorum ♀♀. [H. punctatissimus ♀ at Ferrycarrig] ~~[illegible]~~
Sphecodes divisus 3 ♀♀.
S. very small, divisus √R.C.L.P. 1 ♀ in upper sand pit.
Nomada goodeniana ♂♂ & ♀♀, common.

Dolerus nigratus √R.C.L.P. 1 ♀ near gate at bridge.

Several spp. of ichs in sand pit.

3.5.29 cont.
3-30 till 4 pm. Sand pit by railway at Clone
(Far too windy for collecting!) WX.
Andrena albicans ♂♂ & A. sericea ♂♂.
1 sp. ich (Tryphonid) at Salix. ♂♂.
Psithyrus distinctus ♀ at Gorse! √RCLP.

4th May 1929. A bad day. Collected Dolerus nigrata, 3 ♂♂ & haematodes √RCLP 1 ♂ in Webb's Glen, Arklow. – also 2 ichs

5th May 1929. A fine day of cloud & sunshine.
12 noon till 2 pm. Marsh between road & rt. bank of
Avonmore about 2 miles above Clara Bridge, Wi.
Salius fuscus ♂
Dolerus aeneus √RCLP ♀

Labelled
Derrybawn
G. Wi. AWS.

2-30 till 5 pm. Oak-woods below Clara Bridge
to sand-flat, as usual. Wi. Considerable sun!
Bombus lucorum ♀♀. B. jonellus ♀♀ & ☿☿. B. agrorum ♀♀.
Psithyrus distinctus many ♀♀ seen.
Andrena albicans ♂♂. A. lapponica ♂♂ & ♀♀.
Halictus rubicundus ♀♀ seen.
Nomada ♂ flying over Vaccinium with ♂ A. lapp.
Salius fuscus ♀♀ seen on sand-flat.
Pristiphora quercus ♀ swept off Vaccinium in oak-wood.
Pimpla turionellae ♂ & several other ichs.

6th May 1929. After heavy storms of rain & wind from N. & N.W., it cleared about noon & was sunny but very stormy in afternoon.
Rt. bank of Avonmore between railway & river, opposite Ballyraine, Arklow, W1. 2-30 till 4 pm.
No sawflies seen in marsh!
Andrena albicans ♂♂ common.
Bombus terrestris 1♀ seen. B. lucorum ♀♀.
Halictus rubicundus, calceatus, freygessneri & tumulorum seen on bank under pine trees by river.
Sphecodes divisus ♀♀.
Pompilus, red & black (probably P. gibbus) ♂♂ seen on bank.
1 ich. taken on willow (Tryphonid).

7th May 1929. Drove to Rathdrum, there picked up Miss Buchanan & Miss Patten, & then on to Glenmalure & ascended the Horse's Glen from ford of Baravore, W1. Rain, sleet, hail, snow, &c. most of day till aft. then it cleared. Lay deep in snow over 2,000 ft. Found the Welsh Poppy (Meconopsis cambrica) at foot of gully N. of & opposite the ford of Baravore

8th May 1929. A fine day, with much cloud & local showers in afternoon.
Sandhills at foot of Three-mile water (Magherabeg) W1. as before.
Bombus terrestris 2 ♀♀ seen, jonellus, lucorum, & agrorum ♀♀.
Andrena sericea ♂♂ & ♀♀ seen in dunes.
A. jacobi 1♂.
Apis mellifera ☿☿ on edge of dunes.
Osmia aurulenta 1 very fresh ♀
Sphex lutaria 1♂ & several ♀ seen or taken.

In late afternoon stopped at Brittas Bay (South) & collected for 10 minutes.
Pompilus gibbus 1♀.
Two spp. ichs.
Pezomachus ♀

9th May 1929. A glorious sunny morning, but dull & cold after noon when I was.

Very strong cold E. wind in afternoon; Drove to Wexford & spent 1½ hours in the sand-pit at N. end of the wooden bridge. Saw same species as on 3rd visit, with the addition of Andrena wilkella ♂♂ very fresh & think I saw a ♀. Still no sign of A. carbonaria though bees were very active for some time after I arrived & before the sun was obscured by clouds.

Two spp. of ichs. very common in sand pit & two small spp. taken in motor on arrival.

In afternoon drove home via Blackwater & Courtown & ~~collected~~ stopped at several places but only caught anything in a marsh S. of Blackwater, where I took two ♂♂ sawflies at willows & 2 ichs. (Pontania sp.?) {See R.C.L.P. notes of 5/2/30.

Took Ornithopus perpusillus in sand pit N. of Blackwater.

10th May 1929. Turning warm it rained all morning but cleared in afternoon. Drove home to Dublin, but stopped at Greystones to get motor jobs done & collected for a few minutes amongst alders in Delgany channel below Glen of the Downs, Wi.

Braconid Sigalphus sp.? ♂♂

Apanteles & Very abundant on Alder leaves. Also 1 or 2 spp. of ichs.

END OF ARKLOW SPRING TRIP.

12th May 1929. A fine day with showers (hail do:) & cool strong winds from W & NW. Sun very hot when out. Drove to "esker" at ~~Long Hill~~ Newtownlow, 2¾ miles West of Tyrrell's Pass, Co. Westmeath (WH), where collected amongst scrub on SW slope of moraine from 1 pm till 3.15 during which time there was considerable sun but several showers.

Saw Bombus lucorum, hortorum (1) & agrorum ♀♀.

Andrena jacobi, ♂?, A. albicans ♂♂, A. subopaca ♀

Halictus rubicundus ♀, H. calceatus or albipes?

continued over leaf →

Labelled
N[ew]t[ow]nlow
Co.WH. A.W.S.
12.5.29.

12.5.29 cont. Long Hill, Newtownlow, West of Tyrrell's Pass, WH. cont.

Sawflies. See RCLP's notes on Empria & Blennocampa of 5.2.30!

Empria sp. ♂ near? tridens? ~~sp~~ Empria ♂ & 2 ♀♀ cf. longicornis

Blennocampa sp. ♂ (= ? tenuicornis)

Rhogogaster viridis seen flying. Dolerus aeneus small ♂♂ ✓RCLP.

Abia ♂ resting on Hazel leaf.

Ichs.

Pimpla brunnea? ♀ in scrub on moraine.

P. turionellae? 2 ♂♂.

16th May 1929. A beautiful sunny day, after 3 days gale & showers. Very hot sun but cool wind & too strong in Deerpark for much to fly. Afternoon.

1. Powerscourt-demesne, lower end. WI.
2. " " upper end, not far from deerpark gate.
3. P. deerpark, by stream, gate to sawmill.
4. P. demesne, on return in evening, 6 till 6.30 pm.

Bombus lucorum & agrorum ♀♀ seen.

Andrena jacobi ♂♂ & ♀♀, A. lapponica ♀ in "horse-shoe" pit by east avenue, A. albicans ♂♂, seen.

16.5.29 cont. Powerscourt cont.

Sphecodes divisus ♀ on Daisy at 3.

Nomada bifida ♂♂ & ♀, very fresh at 3.

N. marshamella ♂♂ & ♀♀ at 1 & 3.

Salius fuscus, large ♀♀ at 3.

Dolerus aeneus ♂♂, D. gessneri ♂♂, D. bimaculatus ♂♂ & 1 ♀ all at 3, aeneus also at 2 ✓RCLP. & 4.

Thrinax macula mixta ✓RCLP ♂ at 2.

Athalia lineolata ♀♀ at 1 & 3.

Pachynematus scutellatus ✓RCLP 1 ♂, others seen, at spruce, at 3 near 'big' log in swamp.

Lygaeonematus sp. ♂ = "abietinus rather than saxeseni"! see R.C.L.P. in notes of 5.2.30. No doubt this is the 2 ♂ taken at spruce at 3 as noted above.

Pimpla turionellae ♂♂ at 2 & 4.

P. maculator ♀♀ common at 1 & 2.

Ichneumon filicornis ♂♂ common at 3.

Sp. with red thorax seen on fir tree at 4 on return journey, but missed!

16.5.29. On the evening of this day I found a drowned ♂ Hylaeus communis in "tub" in garden at Mayfield, Harold's Cross, DU. New to Ireland!

✓ RCLP. in notes dated 5.2.30!! See p. 29 →

19th May 1929. A Glorious Day! with some high fleecy clouds at time dimming the sun & a keen E. wind in early part.

Drove to Clara, W1, where worked the oak woods below the bridge, & sand-flat, as usual.

11 AM. Stopped at marsh beyond Ballyhenry, but sun obscured & cool wind. Took here one ♂ Dolerus oblongus ✓RCLP. & several ichs. collected in motor during drive, also 1 ♀ Melanichneumon sanguinator taken in motor near Kilmacanoge, V1. + Odynerus pictus ♂ seen

11·30 AM. stopped ~~to~~ Ceaplore marsh &c. at Garryduff Cross Roads, E. of Cronyhorn, W1, but again no sun & cool wind. Took here several ♂ Dolerus

Bombus muscorum ♀ seen.

Also some ichs. & one ♀ Blennocampa sp. swept off rushes &c in marsh at foot of small channel NE of cross-roads.

~~12 noon till 5 pm~~. Perkins (notes of 5.2.30) say this is B. subcana?

19.5.29 cont. Clara cont.

12 noon till 5 pm. Oak woods (1), sand-flat (2) and Osmunda-swamps behind latter (3) on left bank of Arrmore, below bridge. Many willows in full flower & some not out yet.

Bombus lucorum ♀♀ & 1 ☿ (on willow) seen, B. jonellus ♀♀ & ☿☿.

B. agrorum ♀♀. Psithyrus distinctus ♀♀ seen.

Vespa rufa & vulgaris ♀♀ seen.

Andrena ~~[illegible]~~ lapponica (fide RCLP.) 1 very worn ♂ on willows at 2.

Andrena sericea ♂♂ & ♀♀, A. albicans ♂♂ seen at 2

Halictus spp. seen on sand-flat as usual.

Nomada bifida ♂♂ & ♀♀ abundant.

Sphecodes very abundant on sand-flat!

S. divisus, S. affinis, & S. hyalinatus (?) 3 ♀♀ {See RCLP's notes dated 12.2.30!

Chrysis ignita seen just below bridge. 1st for 1929.

[No sign of Arge metallica in Osmunda-glade at 3]

Dolerus Pontania sp.? 4 ♂♂ (see RCLP. 12.2.30). Pontania leucosticta 3 ♂♂ ✓RCLP. ~~♂♂~~ just below bridge.

Dineura virididorsata ✓RCLP. ♂ (in glade?). Euura saliceti ♂ & ♀ ✓RCLP. Pontania sp. (like bella) RCLP.

~~Pachynematus~~ ~~[illegible]~~ Pristiphora melanocarpa ♀ (✓ RCLP), amongst Vaccinium &c at upper end of sandflat.

Braconid: Ichneutes? reunitor Nees, ♂ (? at willows at 3).

Ephialtes tenuiventris ♂ on birch at 3. "Correct!" fide Roman No. 79.

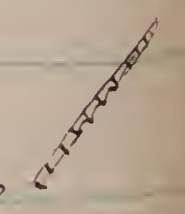
Pimpla ~~[illegible]~~ inquisitor Scop. Hartig ♂. ? where got. {No. 81 fide Roman.

P. ~~[illegible]~~ ovivora ♂.

Took 2 Silpha 4-punctata on willow at 3!

21st May 1929. A fine day after very fine week-end, but spoiled by terrific wind in aft.
Afternoon: Bohernabreena, Du. 2-30 till 4-30.
Owing to violent wind I worked horsetail marsh on right hand side of road 200 yards below lower dam.
Dolerus haematodes 1♂, a black ♀ ? same sp. also seen.
D. dubius ♂♂ common, ♀♀ a few. I have never seen this species in the other marshes across river!
D. bimaculatus 2♂♂, 1♀ (? taken on wet slope above marsh).
Loderus vestigialis ♂♂, typical form, common.
1 ich. & 1 braconid.!

* 26.5.29. [O'Mahony took ♀ Euura saliceti, ♀ Trichiocampus ulmi √RCLP. at St. Annes, Clontarf, Du. on 26.5.29!]

29th May 1929. aft. late. A sunny day, but very windy (E).
Dunshaughlin, Co ME.
(1). "Bog" at Blake's where Dr. Stokes gets Irish Elks.
(2). Lake site at The Bush, S. of Dunshaughlin Work House.
Andrena jacobi ♂♂ at 1 & 2. Halictus calceatus & tumulorum at 1.
Dolerus nigratus ♂♂ at 2. Pteronidea myosotidis √RCLP. ♂ at 1.
Empria sp. (? tridens) RCLP. 12.2.30! ♂ at 1. Tomostethus luteiventris ♀
Ichs. mostly at 2, but one ~~minus~~ with shrunk abdomen at 1. ♂ One little ♂ has antennae 

*. I was laid up during perfect week-end of 25th 27th May, but saw many Crabro varius in garden (1st 1929) on 26th!

31st May 1929. Afternoon. Very hot sunny day! Breezy.
Baily, Co. Du. Cliffs below Miss Massy's &c.
Bombus agrorum ♀♀ seen. Psithyrus barbutellus ♀ seen.
Andrena jacobi ♂♂ & ♀ seen. A. wilkella ♂ seen on Geran. sanguineum
Halictus rubicundus ♀ seen. Sphecodes (? affinis) ♀ seen.
Chrysis ignita seen.
Tenthredopsis ♂
Large red-bodied Tryphonid on cliffs: 4 ♂♂ = Catoglyptus fortipes! ♂.

Small / scale!

2nd June 1929. A very warm day but cloudy & often drizzling rain. Very little sun & few things out.
Powerscourt from 11-30 till 5 pm. 1 = demesne in morning; 2 = deerpark; 3 = upper demesne in evening.
Bombus lucorum ♀♀ & ☿☿. B. agrorum ♀♀ & first ☿ seen.
Vespa rufa, vulgaris & norvegica ♀♀ seen. Nomada flavoguttata ♂ at 3
Andrena jacobi ♂♂ & ♀♀ at hawthorn. A. lapponica ♀ seen
Crabro vagus numerous ♂♂ seen about logs at 2.
Leptothorax acervorum ☿☿ on stumps at 2. Brown cocoon taken in rotten log at 2 from which emerged a ♀ Pompilus nigerrimus on 21.6.29.
Dolerus bimaculatus ♂♂ & ♀♀, D. gessneri ♂♂ & ♀♀ at 2
D. niger ? ♀ at 1; and ? another ♀ at 2. D. picipes ♀ at 1.

2. 6. 29 cont. Powerscourt cont.

Pachyprotasis rapae ♀ at 2. Rhogogaster viridis ♂ at 2.

= antennata ? ♂ at 2

Selandria serva ♀ at 1. Selandria stramineipes √RCLP. ♀ at 2.

Pachynematus obductus 2♀♀, one each at 2 & 3 (EOM & AWS 1 each) √RCLP.

Strongylogaster lineata ♀♀ at 2. Strombocerus delicatulus ♂♂ & ♀♀ at 2.

Ametastegia equiseti ♂ √RCLP.

Lissonota maculata ♀ at bog at 2. – small ♀ ~~with almost smooth hind [illegible]~~ ? No.

Ischnoceros filicornis ♂♂ & ♀♀ common about bogs at 2.

Also many spp. at 2 & some at 1 & 3.

Alomyia debellator 1♂ at 3 (1st 1929!).

7th June 1929. afternoon. A fine day after wet week, warm & little wind & some very hot sun. Drove Miss Knowles &c to Liffey Head, Co. Wi. & collected beetles in pools on bog but saw only one hymenopteron :- Lissonota ♀ = magdalenae Pfankuch ~~? n. sp.~~ Roman No. Agabus arcticus very abundant.

See note on this ♀ from Dr. Roman on p. 100.

8th June 1929. In evening, after terrific thunder shower, I took a ♀ Cladius difformis (very dark wings, & the largest I have ever seen! RCLP) in W. J. Williams' garden (on Gingko!) at Dartry Rd., Rathgar, Du.

9th June 1929. A fine day but only short sun bursts & a strong cool W. wind.

Worked marshes & scrub &c: on both banks of R. Slaney below George's Bridge (Ballyhubbock, Glen of Imaal) Co. Wi. Also took a few on left bank above George's Bridge (3)
1 = left bank below & 2 = right bank below bridge!

Bombus lucorum & agrorum. ♀♀ only. Former rare, latter common.

Andrena jacobi ♂♂ seen. A. wilkella ♂♂.

A. angustior a very fresh ♀ taken, heavily pollen laden, on flower of Caltha palustris in marsh at 1.

A. fucata fresh ♂♂ & ♀♀ frequent.

Halictus albipes & tumulorum 1♀ each.

Nomada ruficornis ? 1♂ seen.

Gorytes mystaceus 1♀ at 2 in scrub.

Pemphredon ~~[illegible]~~ shuckardi 1♂ on road at 2.

Crabro dimidiatus 1♂ at 3, went into pocket of my coat!

Dolerus 2♀♀ at 2. D. bimaculatus 1♂ & 1♀ at 1, ♀ at 2.

Empria sp.? (√RCLP.) 2♂ & 1♀, mostly at 3: see RCLP's notes of 12. 2. 30.

Selandria flavens ♂ var.? √RCLP. at 2. ~~[illegible]~~, S. serva √RCLP. ♂ at 2 – in marsh at 1

Tenthredopsis ♂♂ & (1♀ sent to Miss Scott) at 1, 2 & 3.

Tenthredo arcuata ♂♂. 1st 1929. Tenthredella mesomelas ♂♂ 1st 1929.

9.6.1929 cont. "Ballyhubbock" cont.

Tomostethus luteiventris 1 ♀ at 1 or 2. Pteronidea myosotidis ♂ ✓RCLP.
Ametastegia equiseti ♂ at 1, 3 on burdock. ✓RCLP.

Glypta elongata? ♀ at 2 in marsh. G. similis ? ♂ at 3.
[illegible]
[illegible]

12th June 1929. A hot bright morning turning dull at noon & commencing to drip at 3.30 pm & to rain at 6 pm.
Afternoon. Oak-woods &c. below Clara Bridge W1. as usual. With Miss Knowles & Miss Buchanan to see Cephalanthera.
Abia fasciata ♀ on bramble in wood above sand-flat, hill path, to bridge.
Tenthredella livida ♂. 1st 1929. Tomostethus luteiventris ♀♀ seen.
Andrena fucata fresh ♀ & Vespa (? austriaca) ♀ only aculeates seen.
About 12 spp. of icks. taken, mostly at sand-flat & on oak by the river.
Ichneumon filicornis large ♀✓

Clara, 12/6/29 cont.
Pimpla oculatoria ♀✓, P. ovivora ♀✓, P. hibernica ♀ large, black.✓ ⚥
Mesochorus ♀ Red, yellow & black Tryphon?

16th June 1929. A very windy day with heavy rain squalls & rising glass. Wind W. Very little sun but a few hot bursts before 2 pm. With Palmer!
Upper Glenasmole & Slade Brook, Co. Dublin. 12 noon till 5 pm.
Bombus lucorum ☿, B. agrorum ♀♀, B. jonellus ☿ seen.
Vespa ♀♀ seen at head of reservoir.
Andrena cinerariа 2 ♀♀ on Cow Parsnip by the Dodder (Palmer).
A. jacobi by Dodder (Palmer). A. fucata ♂ (Palmer), fresh ♀.
A. tarsata ♂♂ & a few very fresh ♀♀ by Slade Brook (AWS) & in several other places between that & Dodder (Palmer).
A. subopaca ♀♀ by Slade Brook: one on Potentilla!
Halictus calceatus ♀. H. leucopus 1 ♀ on Potentilla!
Nomada flavoguttata very fresh ♀ by Slade Brook.
[Chrysis ignita below Forth Bridge, Bohernabreena (Palmer).
Crabro dimidiatus ♂♂ by Slade Brook in Hazel scrub.

Meadow Brown & Six-spot Burnet!

Tenthredo arcuata common. T. mesomelas ♂♂ by Dodder.
Tenthredella livida ♀, T. ferruginea ♀♀, T. balteata ♂, by Slade Brook
Rhogogaster viridis ♂♂ common. Pachyprotasis antennata, 2 ♂♂.

29.

16/6/29 cont. Slade Brook cont.

Strongylogaster lineata ♀♀ very busy on bracken buds.

Selandria stramineipes ✓RCLB 5 ♀♀ on bracken.

Euura ~~[illegible]~~ saliceti ✓RCLB ~~♂♂~~ ♀ on willow in Hazel scrub.

Pimpla hibernica small ♀ ?   Glypta [illegible] ♀. = n.sp.? fide Roman No. 84.

Clistopyga incitator ♀

[illegible]

[illegible] by Slade Brook, [illegible] [illegible] on willow or hazel!

Homocidus simulans Stelfox 1♀ by Slade Brook co-type! A.W.S. 1940. formerly thought to be incisus Thoms. & Roman agreed to this determination.

16/6/29. In the evening I found a drowned ♂ Hylaeus communis ✓RCLP in tub in garden. Have never before seen a Hylaeus at "Mayfield" or indeed anywhere near Dublin!

30.

17th June 1929. Spent late evening, 7 till 8-30 along E. side of lower reservoir in Glenasmole, DU, where John S. Barrington reported Cephalanthera ensifolia & saw three fine plants of this orchid. Ino statices abundant & probably hatched on slopes of lower dam. Collected Dolerus gessneri 1♀, Loderus vestigialis ♀, Tom. luteiventris ♀, Tenthredopsis

& about a dozen sp. of ichs.

18th June 1929. A dull very warm, moist, day. Drove L.S. Gogan to Dunshaughlin, & visited Lagore & site of famous crannoge, Co. ME. Collected 3-30 till 6 pm. about the drains & marshes near the crannoge & in Lagore demesne.

Tenthredopsis   Ametastegia glabrata ♀ ✓RCLB.

Selandria flavens ✓RCLB ♂

Stellaria palustris [illegible] in peat among felled drains.

cont.

18/6/29 cont. Lagore, ME, cont.
Collected many ichs. & small braconids.
Perithous mediator ♀ at willow. Lissonota maculata ♀ at stumps.

Chaenon anceps ♂♂ & ♀ very common on vegetation in drains

19th June 1929. A windy dark day becoming fine & sunny too late, very hot & only short sun bursts. Aft. 3.0 till 5.0 pm. East side of Corra reservoir, Glenasmole, DU.
Loderus vestigialis ✓ ♀♀, Dolerus bimaculatus ♀
[illegible] , Tom. luteiventris
Tenthredopsis ♀♀. Tenth. livida ♂ & ♀.
Tenth. mesomela ♂♂ & ♀♀. Ametastegia glabrata ♂. ✓ RCLP.
Odynerus parietinus 1♂ by river. Pteronidea myosotidis ♂ ✓ RCLP.

cont.

19/6/29 cont.
NO!
Astiphromma albarius ? ♀ swept by river just opp. Brady's.
Alomyia debellator. Hab. ♂.

21st June 1929. A fine day! Late evening, 6 till 9 pm. Down to Poulaphouca, KD & WI, there collected with the Liffey survey party, but was going in my little in my time out & most recorded below taken by Palmer or O'Mahony who were sweeping.
Chelogynus lucidus Hal. ? A ♀ swept off ~~birch~~ ash tree at dry channel S. of Poulaphouca, WI. & below bridge, at 9.30 pm. by E. O'M.
{Took many larvae of Croesus septentrionalis on willow, birch & alder on KD. bank: from these emerged, ca. 13.8.29, 27♂♂ & 1♀, all of which were black except 2♂♂
Tenthredopsis ♂ } Taken on Kildare side of gorge
Selandria stramineipes ✓ RCLP. ♀ } below fall.
Tryphonid taken by Palmer above fall on WI side.
Braconids " " E. O'M. with Chelogynus WI.

21.6.29. Tryphonid ich. hatched from unknown sawfly larva taken in Co. WI. or Co. DU. during 1928.

21.6.29. Mesochorus ♀ taken by A. A. Lisney. in St. Pat. Dun's hospital, Dublin.

23rd June 1929. A glorious hot sunny day, with strong fresh W. wind, after a wet day & dull damp night.
Devils' Glen, Wi, from above.
1. = Upper part above gorge. 2 = Glen proper.
Bombus agrorum, lucorum, hortorum (only on Comfrey!) ♀♀.
Vespa rufa ♀ seen.
Andrena fucata 1 ♀. A. saundersella 2 ♂♂ at 1 √ ♀♀
Halictus freygessneri 1 ♀ at 2. H. calceatus ♀ at 1.
Sphecodes ♀♀ seen at 1 (probably affinis & hyalinatus).
Hylaeus confusus ♂ at top of 2, above zig-zag.
H. hyalinatus small ♂♂ at 1 on stones.
Pompilus nigerrimus seen at top of 2.
Gorytes mystaceus ♀ at 2. Given to Palmer!
Crabro dimidiatus ♂♂ v. common at 2, 1 ♀.
" cetratus 1 ♀ very small resting on log by path above upper lodge.

Nomada flavoguttata 1 ♀ at 1.

"Pachynematus xanthocarpus auct. ♂" RCLP. in list of 12.2.30!
Dolerus niger ♀ at 2? Selandria serva √RCLP. ♂ at top of 2.
Athalia lineolata, Tenth. livida & mesomela, Strom. delicatulus seen
Strongylogaster lineatus 1 ♂, ♀♀ at top of 2.

23/6/29 cont. Devils' Glen cont. ; ♀ [illegible] pale stigma small!
Ephialtes tuberculatus 2 ♂♂, 2 ♀♀ flying round small Ash at 2.
Pimpla [illegible] ♀ at 2.
Meniscus murinus √ ♀ at 2.

A. aglaia out

[A ♂ Automalus alboguttatus almost certainly seen by wood side of path.]

Cteniscus = Anisoctenion triangulatorium Grav. ♀, fide G. J. Kerrich, Sept. 1950!

26th June 1929. A glorious sunny day, but keen E. wind.
Aft. 3.0 till 5.0 pm. Stumps &c. about foot of Altidore Glen, Co. Wi. Megachile versicolor ♂. ? M. willughbiella ♀ or versicolor seen.
Bombus lucorum, hortorum, lapidarius 1 ♀ (first 1929), all ♀♀.
Psithyrus rupestris 1 ♀. Ps. barbutellus ♀.
Andrena albicans 1 old ♀ on Cow Parsnip. A. jacobi 1 old ♀ on same.
A. hillana ♂♂ abundant & a few ♀♀. A. saundersella 1 ♀ on Cow Parsnip.
Halictus rubicundus, H. tumulorum ♀♀ seen.
Vespa vulgaris ♀♀ at sawdust-heap.
Pompilus nigerrimus ♂ & ♀ seen. Ceropales maculatus ♂ & ♀
Crabro dimidiatus & leucostomus seen.
Cont.

26/6/29 cont. Altidore cont.
Foenus affectator ♀ taken at stump.
Pteronidea myosotidis ♀ ✓R.C.L.P. swept off nettles on road!

Pimpla robusta ♀ at thistle

Poulaphouca gorge, KD = 1, Wl side = 2. Above fall.
Evening 6 till 9-30 pm. A hot evening
28th. June 1929. but gorge mostly in shade
Ringlet butterflies out!
Odynerus parietinus ♀ at 1.

30th June 1929. Very windy (NE) but hot sun
all day after 10-30 AM. 11·30 till 5 pm.
Upper Liffey at Altidore footbridge, Co. Wl.
Bombus agrorum & lucorum ♀♀ seen, also a few ☿☿.
Andrena wilkella, ♀. A. cineraria ♂♂ + ♀♀, com
A. tarsata ♂♂ + ♀♀ - A. coitana ♂♂ + ♀♀
A. subopaca ♀♀.
Nomada ruficornis ♀? seen. N. flavoguttata ♀.
N. obtusifrons 2♀♀. one with two pairs of
orchid pollinia on its clypeus!
Halictus ♀♀ of albipes + (or) freygessneri seen.
Vespa ♀ seen.
Anteon ♂! swept in marsh above "footsticks". ✓
Crabro varius ♂♂, 1♀. C. palmipes ♂♂ {+2♀♀}.
Pompilus nigerrimus ♂♂ + ♀♀. One ♀ dragging home
a spider ("Lycosid, very young" fide D.R.P.-B.) was attacked by a
☿ Formica fusca & a hot fight ensued, both rolling
over & over in each others clutches & away from the
spider, which was subsequently regained by the Pompilus
& taken home.
Trichiosoma lucorum 3♀♀ on birch.
Cimbex ~~connata~~ 1♀ on birch. C. femorata!
Tenthredella livida ♂♂ + ♀♀ seen. T. atra ♂ + ♀ ✓♀!
T. ferruginea ♂♂ ♀♀. T. balteata ♂♂ + ♀♀ common.

30. 6. 29 cont. Athdown cont.

Rhogogaster viridis ♀ seen. Tenthredo arcuata.
Pachynematus "diaphanus" ♂? swept in marshy spot.
Dolerus aeneus ♀. Pachyprotasis rapae ♀

Pimpla turionellae ♀. P. maculator ♂♂.
Meniscus catenator ♀ on head of grass, at N. end of bridge
Lissonota bellator ♂? (1st seen 1929.): rather L. maculata-looking!
Lissonota ♂, black & red abd. of bellator!
Euryproctus defectivus ?

2nd July 1929 (evening: 5pm till 8pm).
R. Liffey at Athdown footbridge, Co. Wl. as on 30/6/29.
No aculeates seen except a couple of Bombus lucorum & B. agrorum ♀♀. Dull & warm!
Amblyteles oratorius 2 ♂♂ on birch
Tenthredella balteata, livida & atrata.
Rhogogaster viridis ♂♂
Tenthredo arcuata ♂♂ & ♀♀.

Amblyteles oratorius ♂♂ on birch.

Polysphincta madida Hal ♀ = clypeata Holgr
Phytodietus ♂.

6th July 1929. A dull cold day, with NW wind. Annual ascent of Lugnaquillia, Co. Wi., with "A.S.U."

Except a few ichneumons & braconids taken after tea by sweeping at Ballinedden by O'Mahony & myself, no hymenoptera were seen during the day except a single ♀ Myrmica scabrinodis taken by O'Mahony at the head of North Prison at ca. 2,800 feet under a stone. This ♀ I think was one carried up during a "flight" the previous year which had hibernated there during the winter; there was no sign of a nest or workers.

Gyrocampa foveola 1♀ (!AWS. & Nixon).

7.7.29. Athdown, Wi. cont. Sawflies as before but in addition. Pamphilius vafer √RCLP. ♀ under birch leaf above bridge

Larvae of Amauronematus ? collected on willow (S. aurita!)
1♂ emerged 30.4.1930.

7th July 1929. A bright morning & a fine evening but no sun between our arrival & 4 pm. 4.0 to 5.0 pm mostly sunny. With Palmer! Athdown, Co. Wi. (left bank of river at footbridge mostly). Also some ichneumons 1 Proctotrupid & 7 Ichs. collected by sawdust heaps near Kippure Lodge (these labelled "K" on back of label) & A. tarsata, Salius exaltatus ♂ & Pompilus nigerrimus.

Bombus agrorum ☿☿ & ♀♀. B. lucorum ☿☿ & ☿♀.

B. hortorum 1♀ (Palmer). [B. muscorum ☿ flew into motor about Tallaght on way home!].

Narthecium flower!

Andrena cineraria ♀♀, A. tarsata ♂♂ & ♀♀.

A. coitana ♂. Halictus freygessneri ♀.

Pompilus nigerrimus ♂ seen. Crabro varius ♂♂

C. palmipes ♂♂. C. dimidiatus ♀ (Palmer)

Selandria morio ♀ √RCLP., on moors S. of river. Pamphilius vafer ♀ √RCLP. on birch!

Fenusa pumila 2♀♀ on birch! √RCLP. Pachynematus umbripennis ♂ √RCLP.

Pimpla maculator ♂♂ & ♀. very small. P. ovivora ♂ & ♀ large & dark cf. "P. concolor Kr.!

Polysphincta tuberosa ♀.

= cameroni fide Benson 1934.

"Pteronidea cameroni dark var. or P. vittatus (saws not visible)" 1♀ fide R.C.L.P. in litt. 17.4.31.

bred 6.5.1930 from larvae taken on Salix:

In April 1931, when I saw Dr. Perkins at Newton Abbot he said a ♂ & 2♀♀ of this species might be vittatus, cameroni var. or a new species! A.W.S. Some of this material did not hatch till 1931 when 4 or 5 ♀♀ emerged: one of these with saws partly exposed was identified by Dr. Perkins to be cameroni but a dark var. (See RCLP. in litt. June '31)

\ Benson agrees! 1934.

[9.7.29. A ♂ B. agrorum caught at Mayfield.]

ARKLOW TRIP: JULY-AUGUST, 1929.

12th July 1929. A glorious day, no clouds, no wind. Left Dublin at 2.10 pm; reached Arklow 4.0 pm. Worked sand dunes at N. end of Kynoch from 4-30 till 6.0, & ditto plus next bay from 7.0 till 9.0 pm. More out at the later period!

Bombus lucorum ☿☿ common, nothing else seen & no other Bombi.

Megachile maritima ♂♂ common, a few ♀♀ seen.

Colletes picistigma ♂♂ & very fresh ♀♀.

Sphex lutaria 1 ♀ seen digging hole to hold very large Noctuid caterpillar; carried out loads of sand held under head with front-legs about 1/8" cube; came out at intervals of 5 to 10 seconds always backwards & with great trouble. How she carried the soft sand I could not understand. Emptied her load not more than 1 to 2 inches from hole which was vertical, nearly 1/2 inch in diam. & on flat site.

Pompilus plumbeus ♂♂ & ♀♀. P. sp. (? gibbus ♀ seen)

Tachysphex pectinipes a few ♀♀ seen.

Crabro varius 1 ♀

12. 7. 29 cont.

Hedychridium ardens 1 taken, several seen.

Paniscus testaceus, var. melanurus, large ♀, flying at 8.30 p.m. in shade of hill & under bracken near 2nd point.

Small black Ophionid at bent, no [illegible]

Small red Tryphonid in marsh.

Lissonota parallela ♀ on [illegible] bent 2nd bay.

13th July 1929. A fine day, hot sun & strong cool breeze after some clouds had covered the sun till nearly 1 pm. Rathdrum, Wi. Ry station to Avondale, on right bank of river.

Bombus lucorum ☿☿, B. agrorum ☿☿. B. hortorum ☿☿.

B. jonellus 1 freshly emerged ♀ seen.

Psithyrus barbutellus ♂♂ & ♀ seen.

Megachile willughbiella 1 ♀ seen at Avondale foot bridge.

M. versicolor 1 ♀ seen at E. end of same, by stump (left bank).

Andrena fucata, worn ♀♀. A. cineraria 1 ♀ near station

A. wilkella ♀ seen. A. coitana ♂♂ & ♀♀ seen.

A. spp. ♀♀ seen (probably subopaca, or minutula 2nd brood).

A. pygmaea ? 1 ♀ seen 2nd brood.

Halictus rubicundus 1 very fresh ♂ seen.

Halictus spp. ? (♀♀ probably tumulorum, freygessneri & nitidiusculus seen).

43.

13.7.29 cont. Rathdrum cont.

Nomada obtusifrons ♂♂ & ♀♀.

Vespa rufa & sylvestris ☿☿

Odynerus 3-fasciatus ♀ (Mahony) near bridge.

Crabro dimidiatus ♂♂. C. chrysostomus 2♀♀ near bridge

C. leucostomus 1♂, C. varius ♂. (C. palmipes, ?) 2♀♀. C. podagricus 2♀♀ on

Goat Willow near station [no C. aphidum seen!]

Pemphredon shuckardi, large ♀. P. lugubris ♀ seen.

Chrysis ignita on Avondale bridge.

Strombocerus delicatulus ♀. Strongylogaster cingulatus ♀♀

Selandria morio ♀ √RCLP. on bramble (E.O'M.). Nematinus fuscipennis ♂ √RCLP.

[illegible]

Abia fasciata ♀ on Cow Parsnep near station

Pimpla instigator 4♂♂ (one with pale stigma) near station

P. ovivora var.? ♀ near station

P. oculatoria 2♀♀.

Pimpla sp.? ♂, [illegible]

Glypta mensurator ♂ (?) & ♀ (?) both very small.

Phytodietus ♀. Ph. ♀.

Limneria bellator ♂. L. errabunda ? ♂.

Knapweed in flower!

2nd brood Speckled Wood seen very fresh.

44.

13.7.29 cont. Rathdrum cont.

Chelonus [illegible]

[illegible] black [illegible]

14th July 1929. A blazing hot day, never a cloud!

Clone, by the R. Bann, 3 miles above Enniscorthy, Wx.

Bombus lucorum & agrorum ☿☿ seen.

Megachile centuncularis ? ♀ entering hole in cliff in sand-pit.

Colletes montanus √RCLP. See his letter & notes dated 19.2.30. ~~daviesanus~~ ~~an~~ abundant colonies on the parapets of Scarawalsh Bridge× over the Slaney, discovered before our arrival by R.A. Phillips.

C. daviesanus ♀♀ √RCLP. in sand-pit where taken on 18/7/27.

C. montanus 1♀ √RCLP. " " " "

Insects taken at Scarawalsh Bridge are labelled 3 Br.

Clone Co. Wexford 14.7.29

Hylaeus hyalinatus ♂ & ♀. in sand pit.

Andrena fucata ♀♀.

Nomada ruficornis ♀ seen by Bann bridge, as in 1927.

Halictus rubicundus ♂♂, H. calceatus & albipes ♀♀ abundant; & H. nitidiusculus & no doubt other spp. but not looked for.

Sphecodes affinis ? ♀♀ seen. S. divisus ♀♀ Sph. divisus, √RCLP. very small, worn ♀ in sand pit (Phillips).

Crabro aphidum & C. tibialis 1♀ each taken by R.A. Phillips on alders on left bank of Bann just above bridge at 5pm.

14/7/29 cont. Clone, WX cont.

Crabro peltarius ♂♂ & ♀♀ in sand pit. C. chrysostomus ♂♂

C. varius ♂.

Mellinus arvensis ♂♂ abundant.

Odynerus sinuatus 1 ♀

Myrmosa melanocephala 1 ♂ (Phillips).

Salius exaltatus ♂♂ abundant, ♀ seen. Pompilus gibbus ♀ (Phillips)

Eriocampa ovata ♀ on alder by Bann (Phillips).

Ametastegia glabrata ♂ by river.

Tenthredo arcuata. Tenthredella atra 1 ♀ (Phillips).

Lissonota bellator 1 ♀

Glypta elongata, 1 ♀. Glypta bifoveolata, 1 ♀

15th July 1929. A cloudless day, with very hot sun & gentle cool NE breeze.

Sandhills S. of Cahore Pt., WX.

Bombus lucorum ☿☿. B. hortorum 1 ☿ on C. Soldanella

B. distinguendus ☿☿ seen on point next dunes.

Megachile maritima ♂, ♀ seen.

Colletes montanus ♂♂ & ♀♀ ✓RCLP. common.

C. picistigma ♂♂ & ♀♀ 1♂ ✓RCLP. common.

Hylaeus minutus, 1 ♀. [illegible]

Halictus rubicundus, villosulus, nitidiusculus & punctatissimus ♀♀ on S. side of point, nesting in clay.

Sphecodes affinis 3 ♀♀, with last.

Vespa rufa ☿ seen.

Pompilus plumbeus ♂♂ & ♀♀ abundant.

P. rufipes 2 ♀♀, one very large, on Euphorbia, N. of track.

Tachysphex pectinipes ♂♂. Ceropales maculatus abundant.

Hedychridium ardens frequent.

Oxybelus argentatus ♂ & ♀ thus verifying the old Hly record of Haliday MS. On Euphorbia

O. uniglumis ♂. / On Cnicus arvensis where track reaches strand

Crabro wesmaeli ♂♂ & ♀♀. Abundant.

[illegible]

15.7.29 cont. Cahore, WX. cont.

Trichiocampus drewseni √RCLP. ♂ NEW TO IRELAND.
Allantus cinctus √RCLP. ♂.
Tenthredo arcuata a few on carrot.
Abia candens √RCLP. ♀ on bracken.
Selandria temporalis √RCLP. ♀♀ on bracken, near & N. of track.
Cladius pectinicornis √RCLP. ♀ on bracken S. of track, with Abia.
Banchus volutatorius ♂. Lissonota ♀ (? irrigua Thom. or nitida Bdg.) = nitida Bridg. AWS. 1930. {Roman No. says spp. app synonymous, but not know them.
[illegible] melanops ? ♂

16th July 1929. Sunny but blowing very hard from S. after a depression had arrived during the night. Very little out! Coast & sandhills N. & S. of Kilmichael Point, former in Wicklow (1), latter in Wexford (2)
Bombus lapidarius ☿☿ common in 1 & 2. B. lucorum ☿☿.
B. hortorum ☿☿. (No B. agrorum seen!)
Colletes picistigma abundant in 1 & 2.
C. montanus √RCLP. 1♂, very worn, on Jasione in 2.

16.7.29 cont. Kilmichael, WI & WX cont.
Pompilus plumbeus ♂♂ & ♀♀ abundant in 1 & 2.
Tachysphex pectinipes ? seen in 1.
Andrena sericea ♀♀ not very worn seen in sand hollows in 2.

Small testaceous Braconid swept off (? bracken or bent &c.) in 2.
Ichs. taken in marsh behind dunes at 2.

17th July 1929. A rather wild day, but a good deal of hot sun & very warm, after a shower at 11AM. Meeting of the Waters, Avoca, WI: right & left banks of Avonmore for a mile above actual meeting!
Bombus agrorum ☿☿. B. lucorum ♂ (first 1929) & ☿☿.
B. jonellus ☿☿. B. hortorum ☿☿.
Psithyrus distinctus fresh ♂♂. B. barbutellus ♂♂.
Andrena denticulata ♂♂ (♀ seen near Glenart]
A. coitana ♂♂ & ♀♀.
Halictus rubicundus ♂♂ abundant & fresh.
Nomada obtusifrons 1♀ seen.

P.T.O.

17th July 1929 cont. Meeting of the Waters, Wl cont.
Crabro dimidiatus ♂ & C. leucostomus ♀.
C. cavifrons ♀. C. vagus ♂♂ seen.
C. [illegible] ? ♂♂ ([illegible] ? [illegible] [illegible] seen [illegible])

Caliroa limacina ♀. ✓RCLP.
Pimpla ovivora ♀. Glypta bipunctoria ♂.
[illegible] ♀ [illegible] on [illegible]
[illegible] large, [illegible] (? Ephialtes [illegible]) [illegible]
[illegible] [illegible] : July 1927

[On this date, 17.7.29, R.A. Phillips took a 2nd very worn ♀ G. carbonaria at WX]

18th July 1929. A poor day, windy, misty rain, hot. Drove round Tara Hill to Gorey, thence to Hollyfort, through Wicklow Gap to Ballinglen & Coolaling oak-wood; then on through Aughrim to Coats' Bridge & back to Clone House, round top of Gold Mine Valley, down via Moneylough to Wooden Bridge & home.]

12 to 2.0 pm. Oak-wood on left bank of R. Bann at Kilmichael Bridge, below Hollyfort, WX.
Very good ground, on a good day, for ichs & sawflies

18.7.29 cont. "Hollyfort" cont.
Arge ustulata ♀ sitting on birch leaf.
Very large testaceous Braconid amongst Bracken
Mesoleius ♀
Glypta [illegible] ? ♂♂.
Andrena coitana ♂♂ & ♀♀. & a few common aculeates!

18.7.29 cont. Moneylough & Coats' Bridge, Wl. 4 pm.

19th Jul 1929. A hot day, with a good deal of mist & sun, very stormy along coast & exposed places inland.
Deputy's Pass, Wl. 1 = left or N. side, 2 = right or S. side.
Bombus lucorum, jonellus, hortorum, agrorum ☿☿.
Psithyrus distinctus ♂♂ & ? ♀♀ seen } B. terrestris, fresh Queen.
Andrena fucata worn ♀♀ on Rubus. A. coitana ♂♂ & ♀♀.
Halictus rubicundus fresh ♂♂.] A. [illegible] ♀ seen.
Sphecodes hyalinatus ✓RCLP. ♀ fresh at 1.
Nomada obtusifrons ♀ at 1.

19.7.29. Deputy's Pass cont.

Vespa rufa ♂♂ ♀♀.

Odynerus sinuatus ♀ at bored stump at 1

Agenia (variegata ?) ♂ seen at stump at 1.

Psenulus pallipes ♀♀ at oak shoots at 2.

Passaloecus monilicornis ♀ at 2.

Pemphredon shuckardi ♀

Crabro cavifrons ♂♂ & ♀♀ at 1 (& 2).

" vagus ♂♂ & ♀♀ at 1 & 2.

" varius ♂ at 1.

Trypoxylon clavicerum many ♂♂ & ♀♀ at old bored stumps in the ruined "garden" at 1.

Second Irish record!

Foenus affectator ♀ seen on same stump, ? any connexion.

Larvae of Pteronidea ferruginea taken on willow: 2♀♀ em. ✓RCLP. ~~[illegible]~~ on 20.8.1929.

Perithous mediator ♀ at 1. Schizopyga atra nigra, small ♂.

Lissonota femorata ♀♀ at stump in "garden" at 1.

L. palpalis ♂♂ abundant at oaks, thistles, &c.; also 2♀♀ same sp. {See Roman Nos. 93 & 94.

Pimpla oculatoria ♀. P. sagax [illegible] ♀ [illegible]

Glypta mensurator ♀ at thistle head. G. varicoxa ♀.

Lycorina triangulifera ♀ ? where taken. First Irish record!

= Lycorina triangulifera.

19.7.29. Deputy's Pass cont.

Amblyteles oratorius ♂ at 2.

Braconid: – Oenone mandibularis, 5 ex. (? sex), probably on oak near where Trypoxylon were, at lower (NW) corner of the old garden. AWS. 18/2/1932.

20th July 1929. Very windy & not much sun: morning. 11.30 till 2 pm. Sandhills N. of Kynoch's Works to 2nd pt. W1.

Bombus distinguendus ♀ seen at 2nd point.

Colletes picistigma ♂♂ & ♀♀.

Hylaeus minutus 2♀♀ on wild carrot, S. of 1st point.

Megachile maritima 2nd bay.

Sphex lutaria (♂ ?) seen in 2nd bay.

Tachysphex pectinipes

Pompilus plumbeus & Ceropales maculatus

Crabro ~~[illegible]~~ wesmaeli

Hedychridium ardens.

[illegible]

P.T.O.

53.

20.7.29 morning cont. Kynoch's, Arklow, cont.
Allantus cinctus ♀. Cladius pectinicornis ✓RCLP. ♀
Lisonota parallela ♀
Tryphon on carrot.

20th July 1929 cont. Afternoon & early evening.
5 till 7.30 pm. Sandhill at Kilgorman, WX. (with Palmer)

Nothing new in aculeate line seen!
2 small black sawflies, with white legs [illegible]
[illegible] [illegible] taken S. of Cahore!

54

21st July 1929. Grey hot day with sun till 3 pm.
Sandhills, S. of Cahore Pt. (as before) WX. With J A J Palmer.
Bombus lucorum ☿☿. B. hortorum ☿☿ & ♂, B. lapidarius ☿☿.
B. agrorum ☿☿ rare, B. muscorum 1☿ behind dunes (P.)
B. distinguendus ♂♂ (& ? ☿☿ seen) in field above point.
B. jonellus ♂♂ & ☿☿.
Andrena sericea ♀ in sand hollow.
Halictus rubicundus, H. villosulus ♀♀ worn.
Sphecodes affinis ♀♀ at point.
Colletes picistigma & C. montanus ♂♂ & ♀♀.
Vespa vulgaris & V. sylvestris ☿☿.
Pompilus plumbeus abundant.
Ceropales maculatus abundant.
Tachysphex pectinipes ♂♂ & ♀♀. ? taken [illegible] passing through Courtown!
Crabro wesmaeli abundant. C. podagricus behind dunes (P.)
Mellinus arvensis abundant.
Sphex lutaria ♀ seen (P.).
Hedychridium ardens 2
Oxybelus argentatus ♂♂ & ♀♀ on thistles & spurge.
O. uniglumis ♂♂ & ♀♀ with last.
Tenthredopsis ♂ & ♀ on bracken above pt.
Allantus cinctus ✓RCLP. ♂♂ common amongst bracken on dunes.
Selandria temporalis ✓RCLP. ♀ in bracken on dunes.
Emphytus pallipes ✓RCLP. (= grossulariae) ♀. In bracken in N.W. edge of big hollow.
Cladius pectinicornis ✓RCLP. ♀

21.7.29 cont. Cahore cont.

Banchus ~~pictus~~ volutatorius ♂ Roman No. 115. ♂♂ abundant, about thistle & bracken!

B. ~~monileatus~~ volutatorius 4 ♀♀ Lissonota cylindrator ♂. L. parallela ♀.

22nd July 1929. A pouring wet day with NE wind.

23rd July 1929. A dull morning, but fine in afternoon & nearly sunny (quite blue sky northwards!)

Sandhills N. of Pack's Bridge (Ennereilly), N. of Arklow, Wi.

Bombus terrestris a ♂ on Thyme. B. lapidarius ♂♂ & ☿☿.

B. lucorum ♂♂, ☿☿ & 1 fresh ♀ seen. B. agrorum ☿☿.

Psithyrus ~~distinctus~~ barbutellus ♂.

Megachile maritima ♀♀. Colletes picistigma ♂♂ & ♀♀.

Andrena sericea ♀♀ (worn). A. coitana, inland of road ♀♀ on thistles.

Sphex lutaria ♀. Pompilus plumbeus ♂♂ & ♀♀.

Ceropales maculatus

Vespa norvegica, V. rufa, V. sylvestris, V. vulgaris ☿☿ on thistles.

Lissonota parallela ♂.

24th July 1929. A warm day, with a good deal of sun in forenoon, but quite dull after 2 pm.

Deputy's Pass, Wi. Mostly on N. (left) side.

Aculeates mostly as before, but the following add. notes made

Bombus muscorum seemed very fresh ♂♂. B. lucorum ♂♂

Psithyrus barbutellus ♂♂.

Andrena denticulata ♂ on Ragweed.

Trypoxylon clavicerum, very common at same two stumps in old "garden" & 1 ♀ taken on other (S.) side of Pass on oak. Odynerus sinuatus ♀.

Foenus affectator 2 ♀♀ seen at stumps in old "garden".

Bethylid ♂, Chelonus spp. & other Braconids taken on oak.

Lissonota ♀ on stump in "garden".

Lissonota [illegible]

Tryphonid ♀ with long terebra on log in "garden".

Pimpla oculatoria ♀. Glypta nigricornis ? ♂.

Glypta ceratites ♂. G. flavolineata ♂, G. evanescens ♂♂.

Schizopyga atra ♂. Schizoloma [illegible] ♀

Red brachypterous ♀ Cryptid on oak.

57.

24. 7. 29 cont. Deputy's Pass cont.

25th July 1929. A dull day with only some patches of sun in late afternoon.

all labelled
Mucklagh
Ow Valley
Co. Wi. A.W.S.
25.7.29.

Drove to Ballinaclash, thence by Moneymeen round S. slopes of Croghanmoira to Aghavannagh, Wi. & home via Coolballintaggart & Aughrim.
1 pm till 2 pm. stopped at Mucklagh Bridge for lunch where collected some ichs. (mostly on Spruce) & in rock-garden of lodge below same saw Bombus muscorum ♀, B. agrorum, B. hortorum & B. lucorum mostly on purple Buddleia, & also took a Braconid & a couple of small ichs.
Lissonota bellator, a small ♂. L. [illegible] ♀

25. 7. 29

4 till 5 p
at bridge
Lodge [
Vespa rufa
Crabro
Nomada
Tenthredella
Pimpla
Phytodietu
Plectocrypt

most other

4. 3♂♂ & 5♀♀ of the Apanteles (? others dead in box!)
These emerged as follows:— 1♂ on 28th May, 2♂♂ on 4th June, 5♀♀ on 9th June 1930.

Meeting of the Waters, Co. Wl, 13/10/1929 cont.

In turnip field at 3 I found a batch of cocoons of Apanteles like those of A. glomeratus on a turnip leaf. The following spring I hatched from these :—

1. 4♂♂ & 3♀♀ of a sp. of Pezomachus (both sexes wingless!) the ♂♂ of which run to No. 195 in Schmied. (i.e. P. conveniens Först.)
   These emerged as follows: 1♂ on each of 1st April, 12th, 13th & 18th; two females on 21st April 1930 & one ♀ on 22nd.

2. 3♂♂ & ~~2~~ 4 ♀♀ of a sp. of Hemiteles.
   These emerged as follows:– 1♂ on 1st & 1♂ on 14th April, the last ♂ on 5th May, 1♀ on 9th May & 1♀ each on 12th, 13th & 17th May 1930.

3. 1♂ & 1♀ Braconid, both of which emerged on 3rd April 1930.

4. 3♂♂ & 5♀♀ of the Apanteles (? others dead in box!)
   These emerged as follows:– 1♂ on 28th May, 2♂♂ on 4th June, 5♀♀ on 9th June 1930.

24. 7. 29 cont. Deputy's Pass cont.

25th July 1929. A dull day with only some patches of sun in late afternoon.

all labelled
Mucklagh
Ow Valley
Co. Wi. A.W.S.
25.7.29.

Drove to Ballinaclash, thence by Moneymeen round S. slopes of Croaghanmoira to Aghavannagh, Wi. & home via Coolballintaggart & Aughrim.

1 pm till 2 pm. stopped at Mucklagh Bridge for lunch where collected some ichs. (mostly on Spruce) & in rock-garden of lodge below same saw Bombus muscorum ♀, B. agrorum, B. hortorum & B. lucorum mostly on purple Buddleia, & also took a Braconid & a couple of small ichs.

Lissonota bellator, a small ♂. L. [illegible] ♀

25. 7. 29 cont.

4 till 5 p.m. Collected in old oak woods along Ow River at bridge (? Ballyteige Br.) a mile above Coolballintaggart Lodge [labelled "Ow ~~River~~ Valley"!]. Took ♂ Strangalia iv-fasciata (C. palustris)! on thistle

Vespa rufa seen

Crabro varius & C. chrysostomus ♂♂.

Nomada obtusifrons ♂ seen on Jasione.

Tenthredella livida ♂ & T. mesomela ♀ seen.

Pimpla rufata ? ♂.

Phytodietus "geniculatus"? 2♂♂ & 1♀ on oak.

Plectocryptus leucopsis ? ♀ on bracken near stumps.

Most other species taken on or about oak.

26th July 1929. A dull day, warm, with little or no wind. Some sun in afternoon.

Drove to Wexford, via Enniscorthy & home via Blackwater & Curracloe. Stopped for lunch above Ferrycarrig, at Wexford, & for tea at ~~[illegible]~~ Pavey Gap (= Blackwater ~~Harbour~~ Head). All Co. WX.

Field, south of road, 1/4 mile E. of Ferrycarrig, WX. 1 till 2 pm. Sheltered & warm but no sun.

Crabro ♀ varius √ ~~[illegible]~~, a species of Bethylid, some Aphidiids & ichs. Mostly on thistles or along hedge. Saw tree of Pyrus ~~[illegible]~~ aria, in apparently native scrub below field (W. end of).

~~Crabro varius ♀♀.~~

Pimpla examinator ♂. P. ♀ near arctica?

Glypta ceratites ♂ ~~[illegible]~~ ♂, one with almost black hind tibiae.

G. mensurator ? ♂ & ♀.

~~[illegible]~~

Scarawalsh Bridge, above Enniscorthy, WX.

Stopped to examine Phillips's colony of Colletes ~~[illegible]~~ montanus √RCLP. on parapet, but saw only one, a ♀, on Leontodon flowers. See R.C.L.P.'s letter & notes dated 19.2.'30.

26.7.29 cont.

Wexford, sandpit in field at N. end of wooden bridge where Phillips has taken 2 ♀♀ Andrena costomaria, 2 till 3 pm. Hot & some few moments sun!

Bombus distinguendus ♂♂ quite common on Carduus arvensis in corner of field next bridge.

Also seen B. lucorum ♂♂ & ☿☿, B. agrorum ☿☿.

Colletes picistigma ♀ on Leontodon.

C. montanus ♀♀ √RCLP. on C. arvensis

Andrena denticulata ♀ on Leontodon.

Halictus rubicundus ♂♂ abundant, old ♀ seen.

H. lativentris worn ♀ on Leontodon.

H. albipes & calceatus or freygessneri ? ? ♀♀ seen.

H. tumulorum ♂ fresh.

H. nitidiusculus √RCLP. 1 ♂ rather abnormal

H. villosulus 2 ♂♂,

"S. divisus small" √RCLP.

Sphecodes divisus √RCLP. 1 small ♂. S. ~~[illegible]~~ ? a worn ♀.

Vespa vulgaris nest. V. rufa ☿☿ seen.

Pompilus gibbus ♂♂, ♀ seen.

Salius exaltatus ♀ seen.

Crabro peltarius, worn ♀♀

Mellinus arvensis.

Pachymematus xanthocarpus ♂ auct. √RCLP.

26.7.29 cont. Wexford sand-pit cont.
Lissonota errabunda ♀?
[illegible]

26.7.29 cont.
Sandpit &c: 1/4 mile behind (W. of) Blackwater Head, WX. 4 till 6 pm.
Bombus muscorum 1 ☿ seen &c:
Andrena ~~monticola~~ saundersella ♀. A. coitana ♀♀.
A. gwynana ♀, 2nd brood.
Halictus rubicundus ♂♂.
H. leucopus ♀.
Colletes picistigma ♂. C. ~~daviesanus~~ montanus VRCLP. ♂.
Nomada obtusifrons ♀♀
Pompilus gibbus ♀.
Myrmosa melanocephala small ♂.
Crabro palmipes ♂.
[illegible]
[illegible]

27th July 1929. A dull day, warm in shelter, slight breeze. Very little out.
Rathdrum, WI. 200 yards of path S. of goods station & outside tunnel!
Bombus lapidarius ☿☿ common. B. lucorum & agrorum ☿☿ & ♂♂ & 1 ♀ of agrorum seen collecting pollen.
Psithyrus barbutellus & distinctus ♂♂.
Andrena coitana ♂♂ & ♀♀. A. denticulata ♂ & ♀♀ on ragwort.
Halictus rubicundus ♂♂ & ♀♀. H. calceatus 1 ♂.
H. freygessneri 1 ♂. H. tumulorum 1 ♂. H. leucopus 1 ♀ on
Nomada obtusifrons ♂♂ & ♀♀.
Pompilus nigerrimus ♂.
Mellinus arvensis ♂♂.
Crabro varius 1 ♂.
Vespa rufa, vulgaris, & sylvestris ☿☿.
Odynerus 3-fasciatus ♂, very worn, on Rubus

Tenthredella livida ♂♂ & ♀♀. Athalia lineolata seen.

63.

27. 7. 29 cont. Rathdrum cont.

Glypta ceratites ♂♂ & ♀. G. varicoxa ♂, white legs.
G. mensurator (a small dark form) ♀. ↓ G. ♂ like ceratites but with broader head! sp.?
Lissonota variabilis ♀.
Tryphon elongator

28th July 1929. A deep depression & rain all day! Drove to Arklow Rock in afternoon & visited J. A. J. Palmer's station for Asplenium lanceolatum.

29th July 1929. NW wind, very strong, but much hot sun during day.
Clara, bridge to sandflat, left bank of Avonmore, W. as usual. 12 noon till 3 pm.
Salius notatulus 1♂ ✓ The habitat for this species is now much overgrown with seedling birch, gorse &c. & no bare ground is visible. Hence the species is very difficult to observe, but it is still there. A ♀ seen.

64.

29. 7. 29 cont. – Clara
Odynerus trifasciatus ♂. Crabro peltarius, a fresh ♀. Salius exaltatus, 1♂.
Vespa norvegica & sylvestris ♂♂ on Angelica!
No other aculeates of interest seen! Hylaeus confusus ♀
Small black sawfly with white legs, – – –
taken on bracken on roadside N. of bridge.
Tenthredopsis ♀ taken by Hugh.
Abia candens ♀ at sandflat, where S. notatulus lives.
Allantus pallipes ✓RCLP. ♂
Polysphincta varipes ♀. Glypta ceratites ♂
Pimpla rufata 3♂♂, one with "black & white" legs, the other "red & white".
Lissonota bellator ♀ on Angelica. L. cylindrator ♂. L. clypealis ♀ {Roman No. 107.
Dyspetes praerogator ♂♂ on Angelica (1st seen 1929!).
Automalus alboguttatus, several seen, one ♂ taken by George in wood near sand-flat.
Phytodietus 3♂♂, 1♀

Strangalia iv-fasciata taken on Angelica in Osmunda glade at sand flat!

During latter half of July 1929 many ♀♀ & 1♂ of Pristiphora testacea ✓RCLP. emerged from the cocoons of larvae taken on birch at Shankill, Co. Dub. by A. A. Lisney in the previous June!

29.7.29 cont. Afternoon 3 to 5 pm. Drove up to Derrybawn & thence over Military Road to Drumgoff & home via Glenmalure, Wi.
4 till 5 pm. Moor by military road, near Ballybraid, above Drumgoff; took 3 ichs amongst heather.

Road by old barracks at Drumgoff; took 2 ichs.
Lissonota buccator Thunb. ♀, Roman No. 105.
[illegible]

30.7.29. A poor day, no sun & misty rain at times: depression approaching.

31.7.29. Great fall of barometer, gale from S.W. all day but considerable sun between 10 & 1.30 pm. Showers.
Deputy's Pass, Wi 11-30 till 3.30 pm.
Aculeates as before & only addition was Andrena [illegible]
Trypoxylon clavicerum not so common at stumps in "garden" but seen in new spot at lower end of Pass on right side where fallen (living) oak was!

Strongylogaster lineata ♀

31.7.29 cont. Deputy's Pass cont.

Pimpla maculator ♂. 6. [illegible]
Polysphincta varipes ♂♂ & ♀. Schizopyga atra ♂
Poemenia hectica 2 ♀♀ at fallen oak, right side of Pass.
Glypta ceratites ♂. G. mensurator ♂♂ at fallen oak.
Lissonota [illegible]
Acroricnus macrobatus, very large ♂. Heteropelma calcator ♀.

1st August 1929. A wild day, with rising glass, heavy showers & much sun between.
Drove to Glenmacnass & stayed there till 3 pm but no hymenoptera seen, except a few Bombus lucorum & B. jonellus; then returned to below Laragh, where in oak-wood took a few ichs. Some small ichs & braconids taken in motor on both journeys! These labelled

In motor nr.
Rathdrum
Co. Wi. AWS.
1.8.29.

Pimpla maculator ♀
Microctonus sp.? ♀ taken in motor in Arklow on return from Laragh. Cf. M. xanthocephalus Hal. A.W.S. but Roman (No. 87) says "M. cf. testaceus [illegible] sec. Thoms. but propodeum without a well defined area petiolaris"

1.8.29. Laragh.
Lampronota ♂. Pimpla flavicoxis ♂.

2nd August 1929. A bright day with cold E. wind. Sunny in morning & evening but almost dull during middle of the day.

Kilgorman sandhills &c., WX. 11·30 till 4·30 pm.

1 = N. of lane, 2 = S. of lane.

B. lapidarius 1 ♂, many ☿☿ seen.

Bombus terrestris 1 fresh ♀ & several ♂♂ seen.

B. lucorum ♂♂, fresh ♀♀ & ☿☿. B. jonellus ♂♂.

B. hortorum 1 micro ♀ taken. B. agrorum ♂♂? & ☿☿

B. muscorum ♂♂, very fresh. Mostly on ragweed & at 1.

(Halictus albipes ♂♂. H. freygessneri 1 ♂. H. (villosulus?) ♀ seen.

Psithyrus distinctus many ♂♂ seen.

Vespa sylvestris ♂♂ & ☿☿.

Pompilus ~~xxxxx~~ pectinipes? ♂ on wild carrot at 2.

P. (pectinipes) ♀ seen at 1 (usual sandy bluff).

Salius exaltatus ♂♂ & ♀♀ by ~~river~~ stream at 2.

Ceropales maculatus seen.

Crabro wesmaeli seen

Mellinus arvensis abundant at 2.

Arpactus tumidus ♀ on spurge at 1, below "bluff".

Oxybelus uniglumis ♂♂ ♀ on [illegible] at 2.

[illegible] "bluff" at 5.30

Tenthredo arcuata common.

Allantus cinctus ♂ at 1.

2.8.29 cont. Kilgorman cont.

Lissonota parallela ♂♂ & ♀♀ seen & taken at 1 & 2.

L. errabunda ♀ at 2.

[Most ichs. taken by stream at 2.]

Glypta bifoveolata ♀ at 2.

G. flavolineata ♀ at 2.

Pimpla brevicornis ♂♂ at 2. P. maculator ♂ at 2.

P. detrita? ♂ at 2.

Bassus at 1 on bent-grass.

2.8.29 cont. A few ichs taken on Angelica by railway N. of Gorey

? none kept!

3rd August 1929. A hot sticky day, with very strong SW wind, after a stormy & very wet night. Sun very hot when out, but only a little.

11-30 till 1 pm. Walked with Hugh to 2nd pt. N. of Kynoch's & collected a few ichs. in "strawberry hollow" between 2nd & 1st points, on bracken or amongst same.

Ophion luteus.

Melanichneumon sanguinator ♀

Banchus monileat~~orius~~us.

---

4 till 6 pm. Walked with Hugh from Ennereilly to Mizen Head & back: by shore, but back through dunes. No sun.

Saw many Colletes picistigma near Mizen Head.

Saw also Tachysphex pectinipes & Pompilus plumbeus.

Pompilus approximatus ♀ on spurge on gravel flat S. of Mizen Head. Very good ground, covered with Euphorbia paralias, Glaucium luteum &c.

Tenthredopsis ♀ on spurge also.

4th August 1929. After wet night & morning, some sun in afternoon, but heavy showers. Cool, little wind (W).

12 noon drove to Coolballintaggart & stayed till 4 pm., W1.

Collected in cut-down oak-woods on left ~~bank~~ side of Ow valley below bridge above Coolballintaggart. all labelled

Ow Valley
Co. Wi. AWS.
4.8.29

Strangalia iv-fasciata. Seven specimens (6♂♂ 1♀) on Angelica in swampy spot on hillside. Very likely spot for Cephalanthera ensifolia!

Bombus lucorum, B. agrorum, & B. muscorum seen.

Crabro varius 2♀♀. C. chrysostomus ♀ on angelica.

C. vagus ♀♀ on Angelica.

Gorytes mystaceus ♀ on Angelica.

Glypta 'ceratites' ♀. Glypta evanescens ♀. G. flavolineata ♀?

Lissonota bellator 2♂♂ & ♀ at oak. L. cylindrator ♀ at oak.

Pimpla instigator, v. intermedia, ♂ on oak.

Tryphon brachyacanthus. T. elongator.

4.8.29. In evening took '[illegible] gorgonius' ♀ on dunes at Kynoch's.

5th August 1929 (Bank Holiday). A dull cold day, after a very bright morning, turning to rain on approach of a new depression in afternoon.

Drove to Scarawalsh Bridge (N. of Enniscorthy) & thence, via Milehouse, to Kiltrea Bridge (River Urrin) there collected ~~for~~ an hour in quite good ground with some old oak stumps.

Afterwards drove through Camolin, along S. edge of remains of Killoughrum Forest, past Ballyhyland, N. to Woodbrook, Boladurragh, & Newtownbarry; thence home via Carnew & Gorey. Some quite promising ground seen along R. Urrin about Woodbrook & from Blackwin's Bridge to Doran's Cross Roads.

At Kiltrea Bridge I saw or collected.

Bombus lucorum, hortorum ♂♂, agrorum

Andrena coitana ♀♀.

Vespa sylvestris ♂ & ? ☿☿.

Athalia lineolata & Tenthredo arcuata & Tenthredella livida.

Dyspetes praerogator. Pimpla turionellae ♂.

Lissonota bellator ♂. L. variabilis ♀, on wild carrot near Milehouse.

Glypta mensurator, small ♀. G. ceratites ♂.

6th August 1929. A warm day, with some sun, but numerous thunderstorms.

Kilcarry Bridge (R. Slaney) Co. CW. & the glen of the GLASHA or GLASHAVEIGH river which flows into Slaney from W. just below bridge. 12-30 till 5 pm. Fine from 1-30 till 4 pm.

Bombus lucorum ♂♂ & ☿☿. B. hortorum ♂♂

B. agrorum ☿☿. B. muscorum ♂♂ (2 or 3).

B. lapidarius ☿☿ numerous.

Psithyrus distinctus & Ps. barbutellus

Andrena marginata 4 ♂♂, 3 ♀♀ very fresh & almost black specimens. 1 ♂ on Scabiosa succisa, rest on Carduus palustris. Scabious not yet nearly out except for a few flowers.

A. coitana ♀♀. A. denticulata ♀♀, one very worn & looked like wilkella. √RCLP.

Halictus rubicundus ♂♂, H. calceatus ♂♂. H. albipes ♂♂ & fresh ♀.

H. tumulorum fresh ♀ & ♂. H. leucopus fresh ♀ seen.

Nomada rufipes 2 fresh & large ♂♂.

Salius exaltatus ♂♂, (small ? ♀ seen of this sp.)

Mellinus arvensis

Crabro varius ? seen. C. chrysostomus ♂.

Myrmica schencki ☿☿ on path W. from Slaney up glen. Lasius fuliginosus ♂♂ in hundreds, ☿☿, but no ♀ seen!

6.8.29 cont. Kilcarry Bridge, CW. cont.

Pachyprotasis rapae ♀

Allantus calceatus ^vRCLP^ ♂.

Schizoloma capitata ? ♀

Pimpla instigator v. intermedia ♂. P. turionellae small ♀. Polysphincta varipes ♀

Glypta mensurator ♂ & 2 small ♀♀ (one with longer terebra than the other). Pimpla (? detrita) ♂

G. longicauda, 1 fine ♀ & ? a ♂; Lissonota bellator ♂.

Glypta sp? ♂, with red hind tibiae, reddish body, red coxae, red antennae & [illegible]

7th August 1929. Brittas Bay, S. of Mizen Head, Wi.

A dull day, after sunny morning, only 10 min. sun all day.

Pompilus rufipes small ♀. P. plumbeus ♂♂ & ♀♀.

Tachysphex pectinipes ♀ one seen.

Sphex lutaria, 1 old ♂, with tattered wings.

Crabro wesmaeli seen.

Mellinus arvensis seen.

Red admiral seen by C.O. Peacock seen in dunes by C.O. only.

Colletes picistigma ♂ & ♀, large:

Lissonota parallela. ♂♂ & ♀♀ common. A. Roman Nos. 89 & 90. L. errabunda ♀, ? this sp. A. Roman No. 101.

Pimpla brevicornis ♀. Cremastus geminus ♀.

8th August 1929. A fine morning, but dull with showers after 12-30 pm. With C.O.

Drove to Coolballintaggart (Ow River valley) Wi & collected in cut down oak wood (as before) for one hour (11-30 till 12-30). Then drove to Aghavannagh & over pass to Drumgoff & home via Glenmalur. Left motor at summit of pass & walked to Kelly's Lough, where I worked the scarps S of lake & got Hymenophyllum wilsoni, Lycopodium alpinum, Vaccinium vitis-idaea, Salix herbacea, Sax. stellaris, many lichens & liverworts for Miss Knowles & Miss Buchanan; while C. Oldham worked the lake & took Pisidium hibernicum near outlet, & inlet & shores littorally near P. casertanum & P. lilljeborgi near inlet (the former in peaty mud & latter only in reddish silt brought down from gully) but not associated.

8. 8. 29 cont. Coolballintaggart, W1. [Ow Valley]

One ♂ Strangalia IV-fasciata only seen on this day; taken by C.O. on Angelica by road.

Crabro chrysostomus ♀
C. varius ♀.

No new aculeates seen on this occasion!

Small black sawfly taken on birch :— Fenusa pumila ♀ ✓ RCLP.

Ichs almost all on oak.

Glypta evanescens ♀. G. bicornis v. rostrata 2 ♂♂. G. flavolineata ♂

G. [illegible] ♀ ?

Lampronota caligata 3 ♂♂.

[Polysphincta varipes ♀. not in coll. when labelled Jan. 1930. [illegible]!]

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9. 8. 1929. Collected at stumps on road above Clonegal, Co. C.W., on way to Kilcarry Bridge! Andrena minutula ♀ [illegible]

Salius exaltatus ♀ Lissonota deversor 4 ♀♀. L. ♀, ? punctiventris; Roman No. 108.

Meniscus impressor 2 ♀♀

9th August 1929. A fine warm day, but not much sun after 11 AM.

Drove to Kilcarry Bridge, with C.O., & collected for 2 hours (1 till 3 pm.) then drove to Kildavin Shore discovered huge sand pits on CW. (right) bank of Slaney & collected from 3.30 till 5 pm., then home via Scarawalsh Bridge & Ferns.

1 till 3 pm. Kilcarry Bridge, CW.

~~Formica~~ Lasius fuliginosus ♂♂ still about stumps but not coming into open & no ♀♀ seen. Myrmica schencki ♀♀ seen.

Two Red Admirals & 1 Speckled Wood at the Goat Moth "pub" at base of birch tree.

Andrena marginata ♂♂ & ♀♀ taken on C. palustris & on the few flowers of Scabiosa succisa that were out; one ♀ taken collecting pollen on Ragwort!

Odynerus (? sinuatus) seen on Angelica

Crabro podagricus at Goat Moth birch tree (? at "pub").

Otherwise no new aculeates seen on this occasion.

Nomada rufipes ♀ at burrows by path from bridge to Glasha glen.

Allantus cinctus. Ametastegia equiseti ♂. ✓ RCLP.

9.8.29 cont. Kilcarry Bridge cont.

Henicospilus ramidulus ? Glypta longicauda ♂ ? G. mensurator ♂ ?
Lissonota bellator ♂. L. femorata ♀. Pimpla "robusta" ♀. P. brevicornis ? ♀
'P. detrita'? ♂

3.30 till 5 pm. 9.8.29 cont. Kildavin Sand-pit, C.W.
Bombus lucorum ♂♂ & ☿☿. B. hortorum ♂♂.
B. distinguendus 2 fine ♀♀ seen. B. derhamellus 2 ♂♂.
B. sylvarum 2 ☿☿ & one specimen like an old worn ♀ seen.
B. agrorum mostly ☿☿, ? ♂♂. B. muscorum ♂♂.
B. lapidarius ♂♂ & ☿☿, some of latter very large.
[B. terrestris possibly there but not identified for certain.]
Andrena coitana on Centaurea. A. denticulata ♀ on Ragweed.
Halictus rubicundus fresh ♀ seen. H. albipes, calceatus, fulvicornis & H. tumulorum ♂♂ seen.
Sphecodes affinis ~~♂~~ ♂ ✓RCLP & ♂ of larger species seen (? divisus).

All on Scabiosa arvensis or Cent. nigra!

Myrmica schencki ☿☿ in several places. ♂♂ & ♀♀ (winged) seen in one place at mouth of nest on side of old pit.

Exetastes illusor ♀, Roman No. 112, var. with black legs!, others in my collection
Glypta resinanae var. with leg infuscate.
Pimpla brevicornis ♀

10th August 1929. A fine day, but not much seen!
11 AM till 1.30. Askintinny, S. of Arklow Rock.
Hylaeus hyalinatus ♀.
Halictus villosulus ♂.
Sphecodes affinis ♂♂ ♀♀ ✓ RCLP.
Salius exaltatus ♀.

Oedematopsis scabricula ♀.
Lissonota bellator, large ♀.

10th August 1929 cont. 2 pm till 5 pm. Very windy & dull.
Kilmichael Point, Wx to see Matthiola sinuata with C.O.
Did not collect ~~more than an odd icks.~~ if any.
except
Ochthebius lejolisii in pools on rocks!

11th August 1929. A fine warm day, with considerable sun.
Clara, Wl. from bridge to sandflat, as usual.
The only aculeates of interest seen or taken were:–
Vespa austriaca many ♂♂ flying round oak on sand-flat.
Salius notatulus ♀ taken at stump on roadside, N. of Clara bridge.
None seen at usual station on sand-flat.
Pemphredon lugubris ♂ in Osmunda glade at sand flat.
Crabro peltarius quite fresh ♂♂ & ♀♀ at sand-flat.
C. varius ♀. C. palmipes ♂.
Colletes succincta very fresh, many ♂♂, a few ♀♀ on edge of sand-flat.
Sphecodes divisus ♂.

Pristiphora melanocarpa ♀.
Pteronidea melanaspis, var. maculigera Cam. ♀, ✓R.C.L.P. on birch in Osmunda glade.
Ichneumon deliratorius ♂. Automalus albiguttatus ♀ in oak wood: others seen! Amblyteles quadripunctatorius ♀ behind Osmunda glade.

11/8/29 cont. Clara cont.
Lissonota bellator ♂. Pimpla ♂, with yellow scutellum, like P. instigator & intermedia.
Glypta evanescens ♂ in Osmunda glade. Lissonota ♂. Pimpla rufata ♂
Pimpla ♂, with long narrow abdominal segments & large buccate temples, very small, amongst Calluna behind sand-flat.
Polysphincta pallipes ♀.

12th August 1929. A fine day but only occasional sun.
Valley between L. Tay & L. Dan, Wl., 12 noon till 5 pm. with C.O.
Bombus lucorum, muscorum, hortorum & agrorum seen.
Andrena coitana 1♀.
Halictus albipes ♂♂ & H. calceatus fresh ♀, seen
Vespa austriaca ♂♂ flying over bracken. V. vulgaris.
Crabro varius, 1 very small ♀. Mellinus arvensis.
Also about 10 spp. of icks. taken about middle moraine; & the spider Lycosa picta (fide D.R.P.B.) taken on "strand" at L. Dan: 1st inland record for Ireland, I understand! ~~Tatt~~ Seen here also on 20.4.29.

12.8.1929 cont. L. Dan cont.

Pimpla rufata 4 ♂♂ (2 with yellow lines &c. on thorax & 2 with humeral dots only).
L. bellator ♂.

13th Aug. 1929. A wet day, with S.E. wind. Left Arklow at 9 p.m. & drove home. Rain in Dublin after noon, so we were lucky!

END OF ARKLOW TRIP 1929

18th August 1929. A fine day after 2 bad ones, with considerable sun, but cold N.W. winds.
Powerscourt — deerpark, Wi. with Palmer.
1 = cliffs on Maulin side (then labelled "cliffs").
2 = floor of deerpark

Bombus terrestris 2 ♂♂ on heather at 1. B. lucorum ♂♂ & ☿☿.
B. hortorum ☿☿ at 1 & 2. B. jonellus 1 ☿ at 1 & ? a ♂.
B. lapidarius ☿☿ & 1 fresh ♂ at 1. B. agrorum ☿☿ very rare
B. muscorum ♂♂ at 1.
Psithyrus distinctus & barbutellus ♂♂ & ♀♀. One ♂ had only 2 wings & 1 fresh ♀ of latter had no trace of any wings (it was seen on flowers of ragweed.
Colletes succincta, 1 very large very fresh ♂ on ragweed at 2 at bank of river by road, below saw mill

18/8/29 cont. Deerpark cont.

Andrena fuscipes ♂♂ common, 3 or 4 very fresh ♀♀ at 1 & 1 ♂ at bank by stream near fall at 2.
Halictus rubicundus ♂♂ & fresh ♀♀, abundant.
H. calceatus ♂♂ abundant, 1 fresh ♀ seen at 2.
H. freygessneri ♂♂ at 1 & fresh ♀ at 2 (also a few ♂♂)
H. tumulorum fresh ♂♂ & ♀ by river ~~near~~ below bridge, near fall at 2.
H. leucopus several ♂♂ at 2. S. monilicornis ♂ & [illegible] at 2.
Sphecodes (affinis ?? ♂ & ♀ seen at 1.). S. (divisus ?) 2 ♂♂ at 2.
Nomada rufipes ♂♂ & ♀♀ at 1 & with fuscipes by river near fall at 2.
Mellinus arvensis abundant at 2, rare at 1.
Vespa only one specimen seen but ? species
Salius exaltatus ♀♀ at 2.

Athalia lineolata common at 1, amongst heather!
About a doz. sp. of Ichs. taken at each place (1 & 2) & very many seen on slopes in oak wood below cliffs
Pimpla turionellae ♀ at 1. Pimpla small ♂, pale stigma, dark hind femora (? brevicornis var.).
Lissonota bellator ♂ Meniscus impressor ♀.

21st August 1929. A dull day, with heavy rain at 5 pm.

Upper Liffey, W1. (above Athdown!)
Nothing taken but one ich. amongst heather at ca. 1250 ft near top end of Coronation Plantation.

25th August 1929. A very fine day, with considerable sunny periods & cool N. breeze, but after a very wet week there was not much out.

11.30 – 1.30 pm. The Murrough, S. of Newcastle Station, W1.
Bombus muscorum, agrorum, lucorum & lapidarius.
Pompilus rufipes a fine ♀, dragging home large spider (Araneus cornutus imm. ♀ "almost certainly!" fide Dr R. Pack-Beresford) on beach margin just S. of Station.
P. plumbeus ♂♂ & P. gibbus ♀♀.
Ceropales maculatus on wild carrot

Tenthredo ~~[illegible]~~ arcuata very abundant. } on wild carrot.
Chelonus inanitus very abundant }
Macrocentrus marginator ? ♂ in marsh on Sium.
Lissonota basalis ♂. L. parallela, small ♂.
Glypta sp. 5♂♂ like longicauda, but ♀ wanted!

25.8.29 cont. The Murrough cont.
Pimpla brevicornis ♀. P. turionellae ♀. P. rufata ♂. Exetastes guttatorius 4♀♀.
Cryptid ♀, which imitates Pompilus at beach margin where also Pomp. gibbus: has very broad areolet II

2.0 pm till 5.30 pm. Called at Killoughter channel, W1 to pick up Palmer, who had been collecting "Small Meadow Browns" there. He had also taken Halictus rubicundus worn ♀. H. calceatus very fresh ♀. H. albipes ♂. (& George took a very small ♂ H. villosulus. ~~[illegible]~~ ✓RCLP.)
Andrena denticulata ♀ (Palmer)
A. [illegible] Very fresh ♀. (Palmer).
Then on to Ballylusk channel, W1 where I took or saw
Bombus terrestris fresh ♀ queen. B. lucorum worn ♂♂.
B. hortorum ☿☿ & fresh ♀. B. agrorum ☿☿ very worn & fresh ♂♂.
B. lapidarius ☿☿ & ♂♂.
Psithyrus distinctus ♂♂, P. barbutellus ♀, P. campestris ♂♂ of both pale, dark & intermediate forms.
Andrena denticulata ♀♀.
Halictus rubicundus, H. calceatus ♂♂

25.8.29 cont. Ballylusk, W1 cont.

Hylaeus confusus ♀, worn, on flowers of Sonchus arvensis.
H. minutus √? ♀ on Angelica.
Crabro cavifrons ♂ on Angelica.
Odynerus 3. fasciatus ♀ investigating base of flower
of Carduus lanceolatus.

Tenthredo arcuata & Athalia lineolata common.
Pimpla brevicornis ♂♂ (? at Calluna).
Glypta ceratites ♀. G. "haesitator" ♀
Lissonota bellator ♂♂ & ♀♀ seen. Exetastes guttatorius ♀.
Ichneumon sarcitorius ♂♂.

26th August 1929. A very fine sunny day, but not many things out, though many winged ants (Myrmica) seen & caught by motor. Afternoon. With O'Mahony! Athdown, Upper Liffey, W1. 3 till 5-30 pm.
Spent a few minutes at site of old saw mill at Kippure Lodge but saw no sign of any hymenoptera at stumps &c. then went to Athdown footbridge where collected rest of afternoon. Very few aculeates seen!
Bombus agrorum & lucorum only a very few seen.
Halictus albipes 1 or 2 ♂♂ on Golden Rod & Scabious.
Pemphredon lugubris. 1 ♀
Ichs. also rare & only a few plants of Angelica to be seen.
Dyspetes praerogator & Lissonota bellator ♂ & ♀, seen.
Lissonota sulphurifera ? ♂. L. errabunda ♀ ?. Pimpla rufata ♂
Phytodietus coryphaeus ? ♂ & ♀.
Small black & pale sp. (like Halictus breviceps ♂ ?) taken by sweeping by O'Mahony in marsh above bridge.
Ichneumon gradarius ♂ (?)

Schizopyga ♀ with [illegible] fore tibiae taken by E O'M at St Anne's, Clontarf, Dn. on 1.9.29.

1st September 1929. A fine day after depression, but very strong SW-W wind & very little out. Not much sun till after 1 pm, then all sun.

Sandhills & coast at Portrane, Dn. (With Palmer)
1 = sandhills 1/2 mile S. of asylum.
2 = Coast outside asylum & N. of Martello Tower.

Bombus lapidarius ☿☿ & ♂♂ frequent.
B. terrestris 1♂ (also 1♀ reported by Palmer at 2.)
B. lucorum several ☿☿ only. B. muscorum 1♂ seen.
B. agrorum 2 ☿☿ seen only. ~~B. derhamellus ca. 6 ♂♂.~~ [? all faded Ps. rupestris! AWS.
Psithyrus rupestris 5 or 6 ♂♂ on Ragwort.
Ps. distinctus ♂♂, old & faded, frequent
All above at 1 (unless marked 2).
Halictus rubicundus ♂♂ & ♀♀ at 2.
H. calceatus ♂♂ at 2. H. nitidiusculus ♂♂ & ♀♀ at 2.
H. smeathmanellus ♂♂ & ♀♀ at 2.
Mellinus arvensis a few ♀♀ at 1.
Pompilus gibbus ♀♀ at 1 & 2.
P. plumbeus ♂♂ & ♀♀ (some latter very small) at 1.
Tenthredo arcuata & Athalia lineolata at 2, only 1 or 2.
Spilichneumon occisorius ♂ at 2 (Palmer).
Ichneumon castaneiventris ♀ seen at 1.
Mesostenus ♀ at 2 (Palmer).

1.9.29 cont. Portrane, Dn. cont.
Hersilochus ♀ on carrot at 2.
Pimpla [illegible] ♂. Most other ichs at 1, unless marked 2

Lissonota bellator ♀♀ on carrot at 2
L. commixta ♂ ♀ at 2 (Palmer).
L. sulphurifera ♂ & ♀

Wheatear, Swallow, House Martin, Sand Martin all seen.

3rd Sept. 1929. A very hot day (some sun), with thunder at 5 pm.
Upper Glenasmole (Slade Brook), Dn — as usual.
Bombus agrorum frequent. B. lucorum 1 or 2 ♂♂ seen.
Crabro ♀, no doubt varius, seen
Mellinus arvensis ♀♀ common
[Halictus freygessneri ♂♂ & ♀♀. H. calceatus ♂♂ seen at reservoir]
Sawfly larvae taken on Salix cinerea {Pt. ribesii 3♀♀ fide RCLP. Em. on 4/5/30, 11/5/30 & July (?) 1930. also 1 Tryphonid found dead on 25.8.30.
Pimpla brevicornis 3♀♀ at Calluna flowers; with very polished & tuberculate abdomen.
Glypta ♀ at Calluna. Lissonota commixta, a small ♂.
Ichneumon cf gradarius? 2♂♂.

8th September 1929. A terrifically hot day, no clouds & gentle breeze (W) at end of very hot fine week.
Glencree, Wi, from Knockree to Copse Wood & back along path & river. Not much out except at one oak-tree on N. slope of Knockree ~~by~~ near brook & at Copse Wood.

Bombus agrorum common, ♀♀ mostly, B. lucorum worn ♂♂. B. hortorum 1♀ seen. Saw one ♂ lucorum come to river & apparently drink by alighting on stone in mid stream & crawling down to waters edge. In returning he fell on his back on water & nearly lost his life, but managed to get out & eventually flew away.

Vespa sp. seen.

Pompilus nigerrimus 2 ♀♀ seen.
Crabro varius ♂♂ (?) 2♀♀ taken (latter might be palmipes)
Mellinus arvensis ♀♀ (a few only) seen.
Colletes succinctus ♀♀ abundant at scarp by river below copse wood where And. minutula ♀ taken
Nomada rufipes ♀♀ seen & 1 taken, very worn, also ? one ♂ A. fuscipes seen
Halictus rubicundus ♂♂ & ♀♀. H. calceatus ♂♂ & ♀♀
H. albipes ♂. H. leucopus ♂.
Sphecodes hyalinatus 1♂ ~~[illegible]~~ ✓R.C.L.P.? See his notes in letter & list dated 18.3.30! & 17.4.31 after the ♂ genitalia had been exposed! at same place as in
S. ferruginatus
One has only two cubital cells in forewing: the other is very large and is Sph. ferruginatus ~~[illegible]~~ R.C.L.P.

8.9.29 cont. Glencree cont.
No sawflies seen!
Pimpla instigator very large ♀ seen on alder; also small ♀.
P. rufata 2♂♂ & ♀. P. brevicornis ♀.
P. oculatoria ♂♂ & ♀ with red. abd.
P. elegans 1♂.
Polysphincta tuberosa. 3♀♀. Colpomeria quadrisculpta ♀ ? where.

Henicospilus ramidulus ♀ amongst bracken in Copse Wood.
Protarchus rufus ♀ at birch. Ichneumon ♂ (gradarius?).

12th Sept. 1929. A dull windy forenoon & fine afternoon. Went to Uisnach, Co. Westmeath for museum. Did not collect anything as too cold & windy till afternoon. Then saw some Bombus lucorum ♂♂ & B. agrorum ♀♀. Also saw ♂♂ & 1 ♀ of Psithyrus campestris, some of the ♂♂ being dark & some pale forms. Caught one ♂ of each & the ♀ which was pale.

13th Sept. 1929. A very fine sunny day: no clouds.
Powerscourt demesne, Wi. 3-30 till 5pm.
Collected on right bank of river 1/4 mile below the
deerpark, chiefly on oaks on top of river scarp.
Bombus agrorum a few old faded ☿☿ seen.
Mellinus arvensis ♀♀ seen
Crabro cetratus 2 ♂♂ on oak: the first I have ever seen.
Sawflies with yellow abd. [illegible] [illegible] [illegible] on oak. { Emphytus serotinus see 27.9.29 →
Acanthocryptus nigritus ♂.
Pimpla turionellae 2 ♂♂. P. maculator ♀. P. rufata ♂.
P. elegans ♂ & ♀.

15th Sept. 1929. A fine day, but not much seen & very little out.
Glencree, Wi. Copse wood & river banks from old road.
Bombus agrorum, B. lucorum ♂♂, B. hortorum 1♀
Psithyrus campestris ♂♂ of both forms.
Halictus freygessneri 1♀. ~~H. [illegible]~~ H. punctatissimus ♂
Mellinus arvensis

15.9.29 cont. Glencree cont.
Pimpla maculator ♀. P. rufata ♂. P. oculatoria ♀.
Schizoloma ♀
Campoplex falcator ♀ at oak.
Dryopetes praerogator ♂♂ seen.

27th Sept. 1929. A fine warm sunny afternoon.
Powerscourt demesne (just below road at deerpark gate & on right bank of river. 4 till 6 pm.
Emphytus serotinus 2 ♂♂ flying round big oak in field: others seen! ✓ RCLP. on 13/9/29
Bombus agrorum, old faded ☿☿ still at ragweeds.
B. (? lucorum) seen on wing.
Vespa vulgaris ☿☿ numerous at oak trees & :
Crabro varius ? 1♀ on oak.
Pimpla maculator ♀. P. rufata 3 ♂♂ & ♀, one ♂ has black & white hind tarsi.
P. oculatoria ♂
[illegible] sp. ? flying on oak.
Many [illegible] just below [illegible]

All ichs. taken on oak, high above river!

29th Sept. 1929. A fine day after a wet night, rather cool & not much hot sun owing to high haze.
Clara, Wi., oaks on sand flat 1 mile below bridge, as usual.
Bombus agrorum ☿☿ & ♂♂ seen. B. lucorum ♀ seen.
Halictus rubicundus & H. calceatus 1♂ each seen on Scabious.
Vespa vulgaris 1♂, ☿☿ (or ? ♂♂) seen. Lissonota sulphurifera ♂?
Pimpla rufata ♀ {with almost red hind tibiae. Schizopyga atra 2 ~~♀♀~~ ♂♂ on oak at top of sand flat.
Mesochorus sp. ♂. N.B.J. by river.
Pezomachus ♀ swept in woods.

[illegible]

Larvae of 3 spp. of sawflies taken on Salix cinerea at Garryduff Cross Roads near Stump Castle Wi. Em. 19.5.30
Pteronidea ferruginea ✓R.C.L.P. 4♂♂ em. 18.6.30 & owned.. Nematinus fuscipennis ♀ Em. 19.5.30 ✓R.C.L.P. in litt dated 17.4.31.
Mesoleius found dead in pot at end of season & probably parasitic on Pt. ferruginea but could have come from larvae of Croesus sept. from Poulaphuca, KD. reared in pot earlier in 1929

4th October 1929. A showery afternoon, after fine morning. Powerscourt demesne, 3-30 till 5-30 pm., after heavy showers!
[Lissonota commixta ♀ taken by George amidst grass in deerpark].
Most other species taken in demesne not far above Golden Gate but a few on right bank of river a mile below deerpark!

6th October 1929. A cold day, with NW gale & showers after very deep depression. Drove Brunker to Powerscourt deerpark gate & walked up old road & spent day in corries between Maulin & Tonduff, Co. Wi. Saw beech fern, Hymenophyllum unilaterale, Cystopteris fragilis & collected liverworts for M.B. We intended looking for Lycopodium alpinum on Maulin but were driven into corry by the gale. Got 2 or 3 black "sooty" lichens for Miss Knowles.

9th October 1929. A fine day, cold, with NW wind, squally, (Bulletin 8-10-29.) considerable sun in aft.
Powerscourt demesne, above middle lodge, Wi. With E.O'M. & Miss Scott, to see place where she believes she took the ♂ Metoecus paradoxus in Oct. 1929. A number of ichneumons, Braconids &c. taken, mostly by O'Mahony when sweeping:—
Bombus agrorum ☿☿ & Vespa vulgaris ☿☿ seen.
Halictus sp. ♂ on fallen ash, like black H. calceatus!

T.T.O.

labelled 8.11.29

Powerscourt demesne, 9.10.29 continued.

13th October 1929. A very mild day, with S.W. wind
No real sun at M. Waters after our arrival till 2 pm.
then considerable sun till 3-30.
Valley of Avonmore above the Meeting of the Waters, Avoca, Wi.
12-30 till 4 pm. Spent morning above Castle Howard
Gate on left bank (just above ry. bridge) ("=1") where caught
black ♀ ick. with white "storm" (= Melanichneumon saturatorius!) & Daisy took wingless
Proctotrypid in cup taken out of rucksack. After lunch
walked up right bank & took some small icks. (& braconids)
by sweeping hazel bushes by track, also 1 ♀ (Tryphonid?) (= Pristomerus.)
with longish ovipositor (=2). Afterwards crossed to left bank
by 2nd ry. bridge & all other icks collected at foot of
woods along turnip-field immediately NE of said bridge (=3).
The only aculeates seen were one or two very worn
Bombus agrorum & some Vespa (? vulgaris).

13.10.29 cont. Meeting of the Waters cont.

Acrodactyla degener ♀. ? swept off hazel on right bank, by track, at 2.
Pimpla rufata (red hind tibiae) ♀ taken on thistle at 3
Lampronota marginator ♀ at 3.
Cratichneumon fabricator ? ♂ & ♀.
Large Amblyteles (black, orange legs) ♀ at 3
Lissonota sulphurifera ♀ (?) } by railway bridge
Ichneumon [illegible] ♂ } at 3 flying over grass.
Pristomerus vulnerator ♀ swept off hazel at 2.
Melanichneumon saturatorius ♀ at 1.

15th Oct. 1929. Aft. A dull gloomy, very hot day.
Too dark to collect!
Devils' Glen, Co. Wi. (With MB for liverworts.
Took several small icks. but all escaped but
one, owing to lack of light to see them in net.

20th Oct. 1929. A fine sunny morning after wet & stormy night turning showery & cold after lunch. A.S.U.
Walked from Enniskerry to middle Lodge Powerscourt & thence up Glencree river to 2nd "foot-stick" & home via Curtlestown & Enniskerry. Some very nice ground for ichs seen along river & some terraces that should yield bees.

25th Oct 1929. A fine afternoon.
Drove to Altidore, Wi, with M.B., to get liverworts *Jubula hutchinsea* & Dumortiera? , which were found in plenty about the falls by M.B. although not seen there for many years. Met new owner of Altidore (Mr Flood). ~~[illegible]~~ No hymenoptera seen.

27th. Oct. 1929. A glorious day, no wind, very hot sun after a heavy frost (on two successive nights!) & leaves all falling off trees.
Drove Miss Frost along course of Liffey from Dublin to Poulaphouca, taking "PH" of water at 16 places. Saw some good hymenoptera ground about Clane, Straffan, above Kilcullen (sawfly marsh) & below Ballymore Eustace (bee cliff). Took several small ichs N.E. of Straffan, Co. KD. where we had lunch.

30th Oct. 1929. A fine afternoon.
Drove over "Feather Bed" to Glencree, Wi, where ascended Maulin - Tonduff corry with M.B. to get more of black lichen (*Rhacodium*) for Miss Knowles. Took also *Coenogonium* & *Lecidea sanguinea*.

3rd Nov. 1929. A glorious day, all sunny, but with very cold strong W to NW wind. A.S.U.
Train to Kildare, walked to the Red Hills, then north over Dunmurry Hill to Chair of Kildare, thence over Grange Hill & back to Kildare across edge of Curragh. Myxo. (*Trichia contorta* on felled tree at Dunmurry Hill).

6th Nov. 1929. A fine day, with cold N.W. wind
Drove Miss Knowles & M.B. to Maulin corry for lichens. Walked over Maulin & explored upper parts of corry, where at 1,700 ft took unripe myxo. on liverworts: subsequently proved to be *Lamproderma* scintillans

10th Nov. ~~Nov~~ A fine sunny day between two deep depressions; followed by severe gale. Explored upper part of Deerpark, Powerscourt, Wi; especially side valley towards the Long Hill, where on SW side of same found hanging valley with rushy floor which looks good ground for sawflies. One hymenopteron brought home in moss from E. side of waterfall.

17th Nov. 1929. With ASU. Walked from Old Bawn up Glenasmole by Corrig Brook, round Seecawn & back via Butter Mt. Ballymorefinn Hill & Slievenabawnoge. Deep dry snow above 1500 ft. Fine day.

24th Nov. 1929. Drove Art O'Murnaghan & EOM to Athy, stopping to inspect Dun Aillen & for lunch at Mot of Ardskull, where EOM took 1 small Proctotrypid in tea cup; home via Maganey, Baltinglass & Hollywood Glen. Fine day.

1st Dec. 1929. With ASU. Walked from Enniskerry to Powerscourt Fall up east side valley to Calary, thence to N shoulder of The Downs Hill & along E channels of Sugar Loaf to The Quill & to Bray.

15th Dec. Greystones ♂.

19th [illegible] Saw ♀ of Vespa vulgaris at my flowers [illegible] Old Bawn.

List of Ichneumonids & Braconids sent to Dr. A. Roman in Nov. 1929 (ret. Jan. 1930!).

Serial numbers continued from vol. 2, p. 354!

No. 75. Lissonota ? n. sp. ♀. Liffey Head, 1700 ft. alt. Co. Wl. 7.6.29.
= "L. magdalenae Pfankuch 1921 (Syn. L. vernalis Roman 1924)." A.R.

No. 76. Lissonota femorata ♀. Powerscourt Dpk. Co. Wl. AMGrogan 8.8.1927. = "L. biguttata Hgn. (Syn. L. femorata Hgn. & probably L. crassipes Thn.)." A.R.

No. 77. Lissonota carbonaria ♀. at Salix cinerea, Bohernabreena Co. Dn. Miss Scott. 8.5.28.
= L. carbonaria Hgn. Carr has taken a ♀ ~~it~~ at Lichfield." A.R.

No. 78. Lissonota variabilis ♀. Powerscourt, Co. Wl. 10.9.1926. "Correct!" A.R.

No. 79. Ephialtes tenuiventris ♂. Clara, Co. Wl. 19.5.1929. "Correct!" A.R.

No. 80. Ephialtes (tenuiventris ?) ♀ Meeting of the Waters, Avoca, Co. Wl. 23.7.1927. = "Species unknown to me. Possibly musculus (Krb.) Hab., but hind tibiae differently coloured, stigma too." A.R.

No. 81. Pimpla (bernuthi ?) ♂. Clara, Co. Wi. 19.5.1929.
= "Epiurus inquisitor Scop. ♂." A.R.

No. 82. Glypta (? nigricornis var.) ♀. Portrane, Co. Du.
31.8.1928. "Probably correct." A.R.

No. 83. Glypta (? pictipes) ♀. Camphire, Co. Wa.
14.8.1928. = "G. pictipes varicoxa Thu." A.R.

No. 84. Glypta (? breviventris) ♀. Upper Glenasmole,
Co. Du. 16.6.1929. = "Suits the short diagnosis
but has the clypeus with long pubescence!
Can't place it!" A.R.

No. 85. Glypta sp. ? ♀. Glencree, Co. Wi. 29.8.28.
"Same sp. as No. 84." A.R.

No. 86. Ephialtes sp. ? ♀. Dartmoor, Devon.
R.C.L. Perkins. July 1929.
= "E. mesocentrus Gr., small specimen." A.R.

No. 87. Microctonus xanthocephalus Marshall ? ♀
= "M. cf. testaceus Caps. sec. Thoms., but propodeum without
a well limited area petiolaris." A.R.

No. 88. Chorebus lymphatus Hal. ? fide G.T. Lyle.
"Impossible to determine this carded specimen with
Thoms. I cannot even see if it is a Chorebus." A.R.

Notes on above by A.W.S.

No. 81. Is a large ♂ P. inquisitor undoubtedly! Agrees well with a ♂ in Brauns coll. but larger. Nervellus is intercepted just above the centre in ♂ (& Brauns' ♂) & so I ran it down as P. bernuthi!

No. 82. I have 3 ♀♀ of this form from Portrane. They are smaller than Wicklow G. nigricornis & have much longer terebra, otherwise similar.

No. 83. Will not agree with varicoxa from Wicklow.

Nos. 84 & 85. I would be slow to agree that these were the same species! Though both undoubtedly have long pubescence on clypeus as Roman says.

A.W.S. 14.1.30.

Another batch (Lissonotids & Banchids) sent to Dr. Roman in Feb. 1930 & returned with postcard dated 3.3.1930.

No. 89 & 90. Lissonota parallela ♂ & ♀. Brittas Bay, Wi. 7.8.1929.
Apparently correct as Roman made no comment!

No. 91. L. irrigua or nitida ? ♀ Cahore, WX. 15.7.1929.
"To judge from the description both ought to be the same species, but I have nothing of this short-tailed species" A.R.

No. 92. L. sp. ? ♀. Might be a freak of bellator but unlike any other specimen I have seen.
"Might be a var. of carbonaria Hgn., but I am not quite sure the abd. is normal." A. Rn.

Nos. 93 & 94. L. deversor ♀ & ♂. Deputy's Pass, WI. 19.7 & 24.7.1929.
"I think they are L. palpalis Thom, though never having seen the species before, I may be mistaken. Palpalis ♂ is undescribed!" A Rn. See further note at bottom of p.106.

No. 95. L. sp. ? ♀ (cf. L. varicoxa). Clone, WX. 17.7.1927.

No. 96. L. sp. ? ♀ (cf. L. humerella). Rathdrum, WI. 8.7.1926.
"95 & 96 are the same species, L. buccator Thunb. The 1st Abd'l. segment is somewhat different in both, but this is accidental, I have seen it before in L. carbonaria & melania, who are also the same species." A. Rn.

No. 97. L. sp. ? ♀. Upper Liffey, WI. 2.9.1927.
"L. buccator Thun., too." A Rn.

No. 98. L. sp. ? ♂. Glen of Imaal, WI. 31.7.1927.
"A melanistic ♂ of L. errabunda Hgn. (compared with types!" A Rn.

No. 99 & 100. L. errabunda ♂ & ♀. Rathdrum, WI. 8.7.1927.
"99 is L. errabunda like 98. No. 100 may be errabunda, but if so it is very melanistic & smaller than the ♀ type." A.Rn.

No. 101. L. errabunda (?) ♀. Sand dunes, Brittas Bay, WI. 7.8.1929.
"Same as No. 100, but has yellow points on vertex, hind trochanters red!" A.Rn.

No. 102. L. sp. ? ♀. (? L. dubia). Ballyhenry, WI. 29.8.1926.
"Not dubia who has a terebra longer than the whole body (not rare on spruce here!). Very near a n. sp. I have from S. Sweden & from Germany, living of Argyresthia." A.Rn.

No. 103. L. sp. ? ♀. (cf. L. transversa). Lucan, DU. 5.8.1923.
This ♀ has very strongly punctured abdomen (seg. 2 & 3!)
"= L. buccator Thun. ♀." A R.

No. 10[3] was smashed to pieces on return journey! AWS.

No. 104. L. sp. ? ♀. (cf. No. 103). Lucan, DU. 5.8.1923.
Abdomen less strongly punctured! but with the same kind of sculpture!
= "L. buccator, with rudimental vertical dots." A.Rn.

No. 105. L. sp. ? ♀. (cf Nos. 15 & 16). Drumgoff, WI. 29.7.1929.
"Same as No. 104. It is remarkable that none of the present specimens have the two red facial stripes not rare in Sweden & used as a character for varicoxa Thom." A.R.

No. 106. L. sp. ♀, with short terebra. ? bred from pine cones brought home from Powerscourt, WI. 21.8.1927.
"Is L. culiciformis Gr., dark var." A.Rn.

No. 107. L. clypealis ♀. Clara, Wi. 29.7.1929.
"Correct." A. Rm.

No. 108. L. sp. ♀. Clonegal, CW. 9.8.1929.
"L. ? punctiventris Thr. Have no material for comparison at hand." A Rm.

No. 109. L. sp.? Very small ♀. Sand dunes, Portrane, Du. 31.8.1928.
"Unknown to me. Antennae broken, due to the short needle." A.Rm.

No. 110. L. sp. ♂. Taken with No. 109. Looks like a small ~~[illegible]~~ L. errabunda? "Sculpture of abdomen much smoother than in errabunda. May belong to 109." A. Rm.

No. 111. L. sp. ♂, with elongate abd. segments.
Meeting of the Waters, Wi. 23.7.1927.
"May be a small & dark L. clypeator Gr. (= commixta Hgn.)."

No. 112. Exetastes sp.? ♀. (? var. of E. guttatorius with black scutellum). Kildavin, CW. 9.8.1928.
"E. illusor Grav. ♀, var. pedibus nigris. Antennae thinner than in adpressorius Thunb." A. Rm.

No. 113. E. fornicator ♀. Mt. Butler, NT. 17.8.1927. R.A.P.
"Correct."

No. 114. Banchus pictus ♂. Meeting of the waters, Wi. 25.3.1928.
"Is B. crefeldensis Ulbr. ♂. The northernmost locality known. A. Seyrig has described the ♀." A. Rm.
See note at bottom of p. 106 (opposite) →

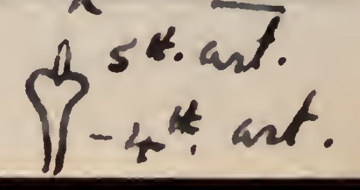
No. 115. B. volutatorius ♂. Cahore, WX. 21.7.1929.
"Correct". A. Rm.

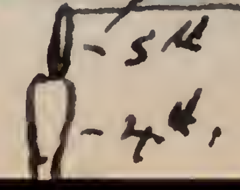
No. 116. B. moniliatus ♀. Ballyvoyle, WA. 27.7.1928.
"Is ♀ of B. volutatorius L." A Rm.

No. 117. B. sp.? (? compressus). Powerscourt, Wi. 19.6.~~1928~~ 1925.
"Is B. femoralis Thr. ♂." A Rm.

Dr. Roman's postcard, dated 3.3.1930 reads as follows:—
"Two of your species outshine the others to my eyes, viz. Liss. palpalis Thr. ♂ & ♀ & Banchus crefeldensis Ulbr, especially the Banchus. It was described from the Lower Rhine valley (♂), then I got a ♂ among Hungarian material from the Danube island Csepel; next Mr. Seyrig found ♂ & ♀ in Spain & now you send an Irish ♂. It seems to be an exclusive spring species & belongs next to B. moniliatus Grav., though much richer coloured. B. femorator Thr. is known on the continent as a parasite of Panolis griseovariegata. Lissonota buccator Thbg. seems to be no rare species in Ireland. I have always found it on tree trunks, principally Salix fragilis (cultivated). I scarcely think you have L. dubia Hgn., because in my experience it is invariably connected with spruce."

Dr. Roman p.c. dated 22/3/30 says that another pair of Lissonotae from Deputy's Pass, 19.7.29 & 4 ♀ from Clonegal, 9.8.29 are all derasor & the former not palpalis. Cf. his note on Nos. 93 & 94, p. 103 ante.
He also says that max. palps of ♂ (not ♀!) Banchus crefeldensis are like those of B. moniliatus & no other sp.





} copies of his sketch!
[cont. Vol. 4 p. 93.

1930.

26th Jan. 1930. ASU. A cold day with heavy mist in hills. Bus to Blessington; walked to Tallaght, via Sliev Thoule & Knockanavea.

9th. Feb. 1930. ASU. A perfect day! Train to Newcastle: walked along coast & over Bray Head to Bray. Submerged peat exposed on beach at N. end of Newcastle Station. Studied section in channels at the Breaches.

23rd Feb. 1930. A perfect day! Spent day in upper deerpark at Powerscourt, as far as cliffs & reservoir & Old Long Hill.

2nd March 1930. A fine day, with cold wind. Drove to Ballyhenry & Ballylusk.

7th March 1930. Aft. Saw a few Primroses out in glen above Mrs. Doyle's at Bohernabreena.

9th March 1930. Very wet, misty rain all day! A.S.U. Drove to Hollywood Glen: walked up Toor Channel, where saw raven's nest, south to head of Toor Brook & back over Church Mt.

16th March 1930. A fine sunny day. Walked to Templeogue & home.

17th March 1930. A. Farrington reported Bombus (? lucorum) at Magheraboy, Co. Wl.

18th-19th March 1930. Heavy fall of snow in night: sunny next day.

22nd March 1930. A fine aft. turning cold & dull. Spent afternoon at Bohernabreena. Saw nothing out in way of insects or willows! [Almond out in K. Square!]

23rd March 1930. Milder but wet in morning. Drove to The Scalp with Hugh in aft. Nothing seen.

6th April 1930. The first fine day for a long time! After frosty night a beautiful morning: cold N-wind later & clouds from till 4 pm. especially between 2 & 4 when hardly any sun in Gold Mines Valley.

Ballyhenry quarry, Wl. 10-30 till 11.15 AM. Hot sun.

Bombus lucorum common } mostly at
B. terrestris 1♀ seen } willows.
Andrena clarkella ♂♂, very fresh, & ♀♀.
A. apicata ♂♂.
A. minutula v. parvula 1 ♂ on scree.
Nomada leucophthalma ♂♂.
No sign of Banchus [illegible] which [illegible] wanted!

Chiff-chaff. Willow Wren.
Tortoiseshell & Peacock
Butterflies & oil Beetle.

Railway opposite Deputy's Pass, Wl. 11.30 till noon.

Bombus lucorum several ♀♀
B. terrestris 1♀ seen.

Meeting of the Waters, Wl. 12.30 till 2 pm. Sunny & cloudy.

Andrena clarkella 1♀ at willow on rly. S. of Meetings. Nothing else seen. Violets in flower (V. [illegible])

Gold Mines Valley, Wl. 2.15 till 3.30 pm. Very little sun.

Andrena clarkella 1♀ on N. side below wood.
No sign of Cryptopimpla anomala in wood! Ground Ivy in flower

7th April 1930. afternoon. A fine sunny day with cold wind (N.).
North side of Dargle Glen at upper end, Co. Wl.
Bombus lucorum a few ♀♀ seen.
Vespa ♀ seen, looked like sylvestris but?
I spent an hour in the oak-woods on the chance of getting Cryptopimpla anomala but not an ichn. seen; in fact the only hymenopteron seen was one ♀ (?) Cynipid swept off vaccinium &c under oak.
N. of the oak wood I saw 1 ♂ Andrena at willow which looked small & grey like A. praecox, but?

10th April 1930. afternoon. A fine day, with small clouds, much sun, but cold N. wind up valley.
Bohernabreena(1) & Glenasmole, E side along lower reservoir(2). Co. Dub.
Willow Warblers, & Chiffchaffs very abundant. Sand Martins by the Dodder above Old Bawn.
Bombus lucorum, B. terrestris, & B. jonellus ♀♀ seen.
Andrena clarkella ♂ very fresh & ♀♀ at 2.
A. gwynana ♂♂ & 1 fresh ♀ at 2.
Halictus freygessneri 1 ♀* abnormal specimen / RCLP. on dandelion at 1.
Nomada leucophthalma 2 large ♀♀, 1 small ♀ at banks at 2 with A. clarkella.
Amauronematus viduatus / RCLP. ♂ at willow at 2.
Thersilochus 1♂, 3♀♀ at willow catkins at 2.

ARKLOW (EASTER) TRIP: 1930.

17th April 1930. Drove to Arklow in afternoon. A fine day with almost a gale from N. after very harsh weather. Everything very backward. Stopped at Ballyhenry quarry, Wl, but little sun & only 1 ♀ Andrena clarkella & 1 Bombus lucorum seen.

18th April 1930. A fine day with much sun in morning, but same cold strong N-wind.
Walked by road half way to Ennereilly, Wl. & home by coast. Morning!
Bombus lucorum numerous ♀♀ at willows.
~~Bomb~~ Psithyrus barbutellus 1 ♀ on dandelion along coast.
Apis mellifera nest in ash tree along road N. of Webb's River first seen ca. 1926 still in full swing & ♀♀ visiting willows & marsh Marigolds along edge of marsh below road.
Andrena albicans 1 ♂ on willows by road.
A. nigroaenea ♂♂ common & very fresh along coast.
Halictus rubicundus 1 ♀, H. villosulus 1 ♀
H. (? nitidiusculus) ♀ on daisies & dandelions along coast.

18th April 1930, afternoon. Only blinks of sun. Drove past waterworks (Arklow) & back gate of Glenart Castle, then southwards through Johnstown across Wexford boundary to glen of   , where very good swampy ground full of birch, willow & alder; also Oak woods. Saw here
Bombus terrestris 1 ♀. B. lucorum ♀♀, many

In Glenart woods at back gate much Holly under Oak & very nice ground: saw Bombus jonellus & B. lucorum here. No sign of ichs although some hot sun.

Stitchwort & Wood Sorrel well out at latter place.

19th April 1930. Much sun till 4 P.M., but Northerly gale all day & very cold except in shelter. Dull, with sleet-showers after 5 o'clock.

11-30 till 3.30. Woods & sand flat below Clara Bridge, W1, as usual.

19.4.30. Clara: oak woods & sand flat, cont.
Bombus lucorum a few ♀♀, B. jonellus 1 ♀, seen.
Andrena lapponica ♂♂ abundant, several very fresh ♀♀, though Vaccinium very late & hardly out.
[No Halictus seen on sand flat!]
4 ♂♂ of Anomalid & 1 ♂ Campoplegid in woods, all former at Vaccinium, latter at Holly, by Osmunda.

Sawfly (black) ♂ in woods below sand flat. = Lygaeonematus mollis ♂ ✓ R.C.L.P.
Amblyteles ~~Ichneumon~~ amatorius ♀ taken by track near upper end of sand-flat.
Another ♀ ich seen at gorse, but missed.
Holly Blue, 1 ♀, in woods.
Swallows seen several times by M.D.S. & boys.

---

4 till 5 pm. Woods below Castle Howard at meeting of the Waters, Avoca. W1.
Bombus lucorum 1 ♀ seen.
Andrena lapponica several ♂♂.
No ichs seen though hot sun & sheltered.

20th April 1930 (Easter Sunday).
Gale from N. continuing, after a very bad night with sleet showers: very cold: considerable sun in afternoon.
Gorteen valley, S. of Coolgreany, Co. WX.
2.30-4.30 pm. Sheltered & plenty of sun, but willows only out here & there & nothing seen but a few Bombi.
Very good ground for sampling a few weeks later in year!
Bombus lucorum ♀♀. B. agrorum 1♀ very fresh seen on ♀ willow.
Cowslip out along roadside behind Glenart, Wi.

21st April 1930. (Easter Monday).
Storm gone at last! Much warmer, little or no wind: considerable sun after 2 pm.
Sandhills S of Cahore Pt., Co. WX.
1.30-4-30 pm.
Bombus lucorum, B. terrestris (1), B. jonellus (2)
B. agrorum 1♀ at Glechoma, B. hortorum 1♀ at Primrose, others seen.
Andrena albicans ♂♂ at willow.
Apis mellifera ☿☿ at willow.
Sawfly ♀ on sand in big hollow. = Emphytus pallipes
✓ R.C.L.P.

22nd April 1930. A fine day, warm & with considerable sun, though clouds persistently hung over sun during mid day.
Kilcarry Bridge, Co. CW. & glen of the Glasharrig as before.
Myrmica schencki ☿☿ by the path as usual.
Bombus lucorum a few ♀♀ & 1☿ at willow
B. hortorum ♀. B. agrorum ♀♀.
B. distinguendus 1♀ in marsh, below a willow.
Andrena rosae ♀♀ abundant, only 2♂♂ seen.
A. praecox ♂♂ & many ♀♀, latter very fresh
A. nigroaenea ♂♂ only. A. albicans ♂♂ only.
A. gwynana several ♀♀.
A. minutula 1♂, 2♀♀, one on willow, 1 on daisy.
Halictus rubicundus ♀, & a small sp. seen.
Nomada bifida ♂.
Salius fuscus ♂, on ditch of upper road.
Pimpla maculator ♀ on willow.
Sp.? like Lissonota carbonaria ♀ seen on tall willow.
Plenty of larvae of M. aurinia in marsh & took larva of Goat Moth moth em. in July following! under bark of Birch tree where Lasius fuliginosus as usual.
Greenveined White & ♂ Orange-tip seen along walk from Gorey, & former also at Kilcarry.

22/4/30 cont. Afternoon 3 4 till 4.30 pm.
Sand pit below Kildarin Bridge, G.C.W.
Nothing seen in way of bees but a very few Bombi, probably all B. lucorum; also Myrmica schencki, Lasius niger & L. flavus. Plenty of Platyarthrus hoffmannseggii in nests of last 2 spp.
Saw, but failed to catch, wingless ♀ of Phygadeuonid exactly where one taken on 9.8.29.

23rd April 1930. Dull all day & misty rain from 11 AM onwards.
Walked over Arklow Head to Askintinny & back across S. Strand. Saw one ♀ Psithyrus distinctus on Head & 1 ♀ And. gwynana at Askintinny.

24th April 1930. Damp, wet & foggy, but very warm, all day.
In afternoon drove to Meeting of the Waters, & walked up right bank of river to 3rd ry. bridge across same. Took one ♀ Braconid on a laurel bush. =
Very good ground for later in year! {Tried July 1930 but too much overgrown after leaves come on trees! A.W.S.

25th April 1930. Still damp & foggy, & drizzled from 3 pm onwards.
Drove to Clara, about noon, & stayed till rain came on. Warm & sheltered, but no sun.
Bombus lucorum & jonellus ♀♀ at Vaccinium
And. albicans ♂♂ seen at willows.
A. lapponica ♂♂ in woods, no ♀ seen!
A. praecox 1 fresh ♀ taken on path through wood where A. lapponica nests.
Salius fuscus ♂ seen at same place.
Ants: Lasius flavus & L. niger very busy at sand flat throwing up sand mounds.
One small ich. caught & lost by path in wood.
One sawfly a ♀ ~~[illegible]~~ taken on Vaccinium behind Osmunda glade:— (See R.C.L.P. in litt. dated 17.4.31)
= "Pontania collactanea (or Amauronematus sp. near viduatus or viduatus var.)"

26th April 1930. A glorious day, with very hot sun after a dull early morning. Drove home!
Devil's Glen, Wi. 12 noon till 3.30 pm. Very little out at first, indeed things only just coming out (? hatching out!) about 3 pm.
Bombus lucorum ♀♀. B. jonellus 2 ♀♀ seen both on Dandelion flowers. Psithyrus distinctus 2 ♀♀.

26/4/30 cont. Devils' Glen, Wi. cont.
Andrena albicans ♂♂ seen at willows below fall, &:
A. gwynana several ♀♀ seen.
~~A. minutula, ? ♂~~ A. subopaca, a perfectly fresh ♀ taken on flowers of Wood Sorrel!!
Nomada fabriciana seen on dandelion.
Thrinax ♂ ½ mile above foot of glen, by road.
Empria all = E. tridens fide R.C.L.P. spp. ♂♂ + ♀♀ at various places between road & stream in glen: mostly on or about brambles.

Pimpla inquisitor ♂ ? ½ mile above foot of glen.

Goldilocks out all way up glen: also Bluebells.
[Garlic out at Newtown mount Kennedy!]
Speckled Wood (1) taken by Hugh at foot of glen.
Holly Blues abundant.
[Jack-by-the-hedge out at Enniskerry!]

END OF ARKLOW TRIP.

27/4/30. Blennocampa subcana ✓ RCLP. taken at L. Dan, Co. Wi. by A. A. Lisney (i.e. between L. Dan & L. Tay).

27th April 1930. A warm dull day till 3pm., then cold & foggy with E. wind.
Glencree river, just above where it enters Powerscourt, Co. Wi. (left bank).
Bombus lucorum, terrestris, & agrorum ♀♀.
B. lapidarius 1 ♀. First seen 1930.
Andrena albicans ♂♂ abundant.
A. jacobi ♂♂ flying over gorse. 1st 1930.
A. apicata 1 ~~♂~~ ♀, by side glen. A. gwynana ♀♀
Nomada Fabriciana 1 ♀ on clay bank by side glen.
Salius fuscus ♀.
Dolerus aeneus 1 ♂ swept in rushy meadow: 1st 1930.
Sagaritis in wood: the only ich. seen all day.

1st May 1930. The third perfect day in succession!
3-30 till 5 pm. Marsh in floor of The Dingle, Co. Du. with A. A. Lisney.
Dolerus liogaster 2 ♀♀ on rushes, just S. of wall across marsh, where AAL. took 1 ♀ on 21st April 1929. (AAL.)
D. nigratus 2 ♂♂. D. aeneus 2 ♀♀.
Also saw Andrena albicans ♂♂ + ♀♀, A. jacobi ♂♂. A. lapponica 1 fresh ♀ on Vaccinium. Nomada marshamella ♂ & various Bombi in distance.
Cuckoo seen & heard! [Large White seen in Leinster Rd. DU.

4th May 1930. A dull morning, turning fine, but 15 minutes after reaching Clara a gale formed & it rained hard, though blue sky to east & also to west. Left Clara at 2 pm & made over Wicklow Gap, down King's River valley to Hollywood & Mergenstown Glen, where there was considerable sun, but strong breeze.

12-0 to 12-30 noon. Marsh N.W. of Garrydaff Cross Roads, S. of Rathdrum, Wi.
Dolerus nigratus ♂♂
Dolerus aeneus ♀.
D. madidus ♂ (E. O'Mahony!)
D. liogaster ♀ in rush patch close to road, N. of cross roads, S. of bridge (E. O'Mahony).

12.45 till 2 pm. Clara, Wi.
A few bees seen in wood before rain.
Pimpla calobata ♀ taken by Hugh on sand-flat under Scots Fir, on a piece of egg-shell!

4.5.30 cont.
Marsh at head of Mergenstown Glen, near Hollywood, Co. Wi.
Dolerus oblongus ♂ ?
D. madidus ♂ & also a ♀ seen on rushes.

Many Corncrakes heard!

5.5.30. Swifts seen in evening at Mayfield, Harold's Cross. Extraordinarily late in arriving!

8th May 1930, late afternoon. Sunny & cold. Glen of the Downs, Wi.
Sphecodes sp. ♀ & Nomada marshamella in old sand pit above Delgany road. Broom in flower.

11th May 1930. A hopeless day with rain in afternoon on approach of depression. Ballymore Eustace, Co. KD.
Andrena sericea ♀, very fresh, on dandelion (Palmer), near sand-cliff by the Liffey, where it was caught just as the rain commenced.
Common Bugle in flower.

15th May 1930. Mostly dull & windy in aft.
The Dingle, Co. Dn. for Dolerus liogaster but none seen.
D. aeneus? 1♀, the only one seen. Germander Speedwell out!
2 spp. ichs!–

18th May 1930. A stormy day, after a deep depression & severe gale & rain the previous day! Much sun!

10-30 - 11 AM. Marsh between roads at Enniskerry W.

Dolerus nigratus ♂

Empria sp. ♀ "probably liturata" fide R.C.L.P., on Marsh Marigold.

2 ♂♂ [illegible]

11.30 . 12 noon. Ballyhenry quarry, Co. Wi. Sunny.

Andrena jacobi ♂♂.

Nomada goodeniana ♂ & ♀.

Some ichs. & braconids

12-30 till 4 pm. Clara, Co. Wi. Sunny, very windy & several showers. Almost all taken in oak woods behind sand flat (1) & in Osmunda glade (2). A few species taken near Bridge & Dolerus niger ♂ (small) taken above Bridge by M.D.S. (3).

No bees seen on sand-flat: too windy!

Nomada bifida seen in woods.

Dolerus aeneus ♂ & ♀ in woods.

Pontania leucaspis ✓R.C.L.P. ♀ on birch at 2 (antennae subsequently broken! AWS).

NB. Some taken this day at Clara are erroneously dated 25. 5. 30.! AWS.

18. 5. 30 cont. Clara cont.

Pimpla ~~turionellae~~ ♂. P. inquisitor ♂♂ common amongst Vaccinium & on young oaks just in leaf: for ♀ see below.

P. inquisitor small ♀; swept off Vaccinium not far below bridge

P. rufata (s.s) ♂.

[illegible] f. [illegible] ♂ = in all probability a ♂ Stilbops vetula not recognised till 2.V.03! AWS.

Phytodietus gemmulatus ♂? [illegible]

21/5/30. Empria longicornis ♂ ✓R.C.L.P. taken at Ennistymon, Co. Cl. by R.A. Phillips

23rd May 1930, afternoon. A fine day, with hot sun & cool E. breeze at end of a fine week.

Glenasmole, Co. Du. East side of lower reservoir, unless otherwise stated: almost all taken in first big coomb.

Bombus jonellus (1), lucorum & agrorum ♀♀ seen, no ☿☿.

Andrena subopaca 1♂ on Bellis.

Vespa vulgaris & rufa ♀♀ seen.

Dolerus gessneri ♂♂ abundant, a few ♀♀.

D. trimaculatus 1♂ in coomb; 1♀ in "dubius" marsh below dam, by road. T.T.O.

23.5.30. Glenasmole cont.

Dolerus haematodes ♀. D. niger (?), a small ♂.

Loderus vestigialis ♂♂ abundant; a few ♀♀.

Rhogogaster aucupariae √RCLP. ♀ amongst nettles &c. below dam.

Empria sp.? ♂ fide R.C.L.P.

Pimpla turionellae ♂. [illegible]

Sphecophaga vesparum ♀

Alysia sp.? 1♀ cf. [illegible] Hal. [illegible]

NB. Some of the specimens taken at Clara, W1 on 18th inst are labelled 25.5.30 by error! AWS.

25th May 1930. A glorious day, much sun & soft.
Upper Glenasmole ① & Slade ② Brook, Co. Dubl.
(by upper Dodder moraine)
12 noon till 5 pm. With Palmer!

Bombus lucorum, hortorum (1), distinguendus (1 Palmer), agrorum, muscorum (rare), derhamellus (common) jonellus (1 on willows at 2). ♀♀ only

Psithyrus distinctus ♀♀.

Andrena albicans ♂♂ & ♀♀, A. clarkella worn ♀♀ at 1.

A. praecox ♀♀ at 2. A. lapponica ♀ (Palmer) at 2.

A. fucata 1♂, 1♀ just out at 2. A. cineraria ♂♂ & a few ♀♀ just out at 1, ♂♂ below 2. A. wilkella ♂♂ at 1 & 2.

A. saundersella [illegible] A. subopaca

A. jacobi ♂♂ & ♀♀, Palmer found many ♀♀ at 2 going into one spot in bank.

25.5.30 cont. Up. Glenasmole & Slade Brook!

Halictus calceatus at 1 & 2, albipes 1 at 1, freygessneri 1 at 2,
H. leucopus 1 at 2

Nomada marshamella common. N. ruficornis 1 large fresh ♀ at 2 (Palmer).

Salius fuscus large ♀ at 1 (Palmer).

Dolerus haematodes ♂♂ ? [illegible] 1 & 2

D. picipes ♀ at 1

Allantus cinctus ♂ at 1 (Palmer). Empria immersa √RCLP. ♂ at 2

Tenthredella atra ♀ at 1. Strongylogaster lineatus ♀♀ at 1.

Pontania sp.? ♂ √RCLP.

Amauronematus fallax ♀ √RCLP. at willows at 2, rt. bank just below "gorge"!

A. cameroni √RCLP. ♂ – Benson agrees! 1934 Id. again in March 1936! at 2 with last.

Blennocampa tenuicornis ♀ (√RCLP) at same place.

~~Empria immersa~~. Empria sp. ♂ "one of the dubious forms referable to liturata or some of the undulata group" R.C.L.P. in litt. 17.4.31.

Ichneumon lugens? ♀ at 1.

Cryptopimpla anomala? Two ♂♂ at 2 which seem identical with those from the Gold Mines Valley.

Pimpla detrita? ♂ at 2(?). P. instigator ♂ at 1.

125.

29th May 1930. A fine sunny afternoon after a dull midday, cool E. breeze.

Kilmullin Glen, E. of Newtown Mt. Kennedy, Co. Wi.
3.15 till 5 pm.

Bombus lucorum, terrestris, agrorum & lapidarius ♀♀ only.

Andrena albicans ♀♀ gathering pollen on ♂ oak catkins, also at hawthorn, holly, &c.

A. jacobi ♂♂ & ♀♀, A. fucata ♀, A. saundersella ♂♂ & ♀♀ common at pignut under bracken.

No Halicti seen!

Nomada marshamella common. N. bifida 1♀.

Gorytes mystaceus 1♂ on hawthorn.

Nysson spinosus ♂♂ common on one hawthorn bush near "quarry".

Athalia lineolata? ♀ only sparsely seen

Pimpla turionellae 1♂ with red & black hind coxae.

P. detrita ♂♀♀. & P. similis (?) 1♀ like last but with longer terebra!

Mesochorus sp. ♂

Catoglyptus sp. ♂

Common blue seen

126.

1st June 1930. A dull day, cool in Dublin, very hot in Barrow valley below Athy, very little sun all day & never clear sun! Passed through heavy rain between Kilcullen & the moat of Ardscull, on way to Athy.

11.30 till 12-30. Old sand-pit by the Maganey road ½ mile S. of Athy, ~~[illegible]~~. Co. K.D. S. Athy (1)

Bombus agrorum ♀♀. No other sp. seen!

Andrena wilkella ♂♂ common. A. albicans ♀♀ on hawthorn

A. fucata ♂♂ seen.

Halictus rubicundus enormous numbers on scarp & in flat ~~[illegible]~~ ground in pit. H. calceatus ♀.

H. albipes, villosulus, nitidiusculus, tumulorum 1♀ each taken.

No sp. of Sphecodes seen, though I have never seen Halicti so abundant!

Crabro palmipes ♂♂ & one ♀ Vespa sp.? seen.

Tenthredopsis ♂♂ abundant.

Tenthredo arcuata ♂♂ & 1♀ seen. 1st 1930.

Tenthredella temula ♂ at hawthorn.

Loderus vestigialis 1♂

Dolerus nigratus ♂

Wall butterfly seen.

1st June 1930. cont.

12-30 till 1.30. Marsh between road & canal or river just S. of Ardreigh Mill & Ho. Very good ground but not enough sun. Co. KD. | S. Athy (2) |

Bee Hawk moth taken at flowers of Menyanthes

M. aurinia flying over marsh.

Sedge Warbler heard for 1st time 1930.

Bombus muscorum ♀♀ frequent.

Selandria serva ✓RCLP. ♂♂ & ♀♀

Tom. lateriventris ♀ seen.

Dolerus 1 seen amongst rushes.

Stellaria palustris seen in marsh drain (not in flower)

also Selandria flavens 1♂ ✓RCLP.

1.30 - 2-30. Overgrown sand pit on east side of road at same place, Co. KD. | S. Athy (3) |

Psithyrus barbutellus ♀.

Bombus lapidarius ♀ reported by George. B. hortorum

B. sylvarum a beautiful fresh ♀ on red clover.

Andrena wilkella ♂♂. Nomada marshamella ♂ ♂ in same place on 7.9.30! AWS.

Halictus lativentris ♀♀ common on red clover & Veronica chamaedrys

& other spp. seen, probably calceatus & tumulorum

Gorytes mystaceus 1 fresh ♀.

Tenthredo arcuata. Tenthredella temula ♂ at hawthorn

Tenthredopsis ♂♀ abundant. [illegible]

1-5-30 cont. sand-pit S of Ardreigh Mill cont.

Tryphon [illegible] sp. ♂♂ & ♀♀ common amongst grass

Tankardstown Bridge, R. Barrow, N. of Maganey Co. KD. & river edge & plantation at N.E. corner of same. | S. Athy (4) |

Pemphredon lugubris ♂ Thalictrum flavum common.

~~Tomostethus ephippium~~ Selandria morio ✓RCLP. ♀. } all on leaves of Viburnum opulus below bridge.

Empria ? sp. ♂. See RCLP's note of 17.4.31.

Caliroa aethiops ♀ ✓RCLP.

Brimstone Butterfly ♀ seen by Hugh & caught E. of bridge.

Many spp. of Halicti resting at S.E. end of bridge on roadside.

Pimpla rufata ? [illegible] ♂

Exochus [illegible] ? ♀ [illegible] pulcher ? ♂ dark var.

3.0 till 4.0 pm. Bank of Canal just N. of Maganey, Co. KD.

Dolerus palustris 1♂, 3♀♀

Andrena albicans & jacobi ♀♀ on hawthorn.

2nd June 1930 (late evening of very hot day) cool breeze.
Upper part of Kelly's Glen, above Kilmashogue school,
Co. Dub. 7 till 9 P.M.

Bombus lucorum & agrorum ♀♀ seen.

Dolerus aeneus 1♂.

1 ich.

Salix pentandra just coming into flower & should repay working!

3rd June 1930. A very hot day.
First Crabro varius seen in garden at Mayfield, Harold's Cross for season 1930!

5th June 1930 see below!

6th June 1930. late afternoon, then dull & cool breeze.
Coast at Kilcoole station, Co. Wl., with C. Oldham, Father Kennedy & Peter Dunn.

Practically nothing flying & only a couple of ichs. taken.

Odynerus pictus ♀ seen at station.

5.6.30. Powerscourt deerpark, Co. Wl. With E. OM. Fair day.
Sphecodes divisus ♀♀. Tenth. ~~balteata~~ atra ♂♂. Thrinax macula 2♀♀: with abnormal neuration, 1♀ ✓ RCLP.
Selandria stramineipes ♀✓RCLP. Xylonomus pilicornis ♀. Ischnoceros filicornis ♀
Pimpla examinator, small dark ♀; Tenthredopsis — red & black ♀.
Dolerus bimaculatus & germanicus as usual. Ophion Sphecophaga vesparum

[5/6/30. Cladius difformis ♀ ✓RCLP. taken in garden at Harold's Cross, Dublin]

8th June 1930. A perfect day, all sunny, & just
interfere

Co. Wl.
in marsh!
[no terrestris!]
Anthophora
♀♀ frequent.
— ♀♀ common,
[1♂ seen.

tus.

common.
s, one ♀
pillar. P.T.O.
frequent

, ♀ seen (AWS).
♂♂ & ♀ seen.

pleura yellow &c = luteus. (about halfway between luteus & fuscipennis on characters)

4, THURLESTONE ROAD,
NEWTON ABBOT,
DEVON.

17/~~3~~4/31.

Amaur. viduatus ♂. Hal. fratellus ♀ ab. Blenn. subcana Poecilost. longicornis ♂? ✓

Rhogog. aucupariae Poecil. ? n. sp. ♂. Lygaeon. mollis ♂. Blackish wings for Nem: Pt. fuscipennis but ought not to have pale pleura! ✓

Pt. ferrugineae ♂ Pt. ferrugineae ♂ Emphytus pallipes. Try Pontania collactanea (or Amaur. sp. near viduatus or viduatus var. ✓

Poecil. tridens 4 ✓

Poecil tridens 4 ✓

Poecil. tridens 2 ♂. A. cameroni ♀ dark var? or vittatus? saw not visible Pt. ribesii ✓

P. ribesii 2 ♀ saw should be examined, Pt. ferrugineae ♂, Blennocampa tenuicornis. ✓

Am. fallax. A. cameroni ♂. Poecil. immersa ♂. [illegible] literata ♀ ✓

Pont. leucaspis ♀ Emphytus cinctus ♀ ~~Emph.~~ Poecil. ♂ one of the dubious forms referable to either literata or some of the undulata group Pontania sp ♂ ✓

Poecil. sp. antennae of longicornis group, subbifid claws: clypeus like literata rather. Caliroa aethiops. Selandria morio. Cladius difformis ♀ ✓

Priophorus padi ♀ bad. Selandria flavens. S. serva, Thrinax macula ♀ | abnormal neuration ✓

Sel. stramineipes, Dineura viridorsata, Pt. myosotidis, Dineura testaceipes ✓

Pristiphora ruficornis Din. testaceipes var. Sth. hyalinatus large Sth. ferrug ♂. Emphytus pallipes ✓

2 D. nitens ?? not metallic enough & neuration not typical. ✓

Pt. segmentaria ♀. Nr Galway R.A.P.
Pristiphora pallidiventris ♀. Ballyfinney 17.7.30.
Trich. eradiatus ♀ Deputy's Pass.
Pt. ferruginea Templemore R.A.P. 2.7.30.
Sel. morio Rathdrum, 28.7.30.
Fenusa dohrnii ♀♀. Rathdrum & Ennereilly.
Ametastegia equiseti Kilcarry 14.8.30.
♂ nr. Dark sp. } – Rathdrum 28.8.30.
Pteronidea
Pteronidea dispar ♂ Clara 11.8.30.
Sel. morio ♀ Ennereilly. 12.8.30.
Pristiphora pallidiventris yellow form ♀
Phoenix Park. 19.8.30.
Sphecodes hyalinatus ♂ Deputy's Pass
Am. (vittatus, cameroni or sp.?) ♂ & 2 ♀♀
bred, Rathdrum.
Am. cameroni fide RCLP. 3 ♂♂ from Dartmoor.

1930 samples: fide R.C.L.P.

Pontania leucaspis ♀ On birch, Clara, Wi. 18/5/30.
Empria longicornis ♂. Ennistymon, Co. Cl. R.A. Phillips. 21/5/30.
Empria sp.? ♂. Glenasmole, Du. 23/5/30.
Pontania sp. ♂ upper Glenasmole, Du. 25/5/30.
Empria immersa ♂. Slade Brook, Glenasmole, Du. 25.5.30.
Amauronematus fallax ♀. On salix, " " " " "
A. cameroni ♂ " " " " " " "
Blennocampa tenuicornis ♀ " " " " " "
Empria sp. ♂ "one of the dubious forms referable to *liturata*
or some of the *undulata* group." " " " " " "

Those listed below were named by R.C.L.P. when I stayed at Newton Abbot in April 1931 & consequently there is no letter relating to them from him.

[*Pteronidea segmentaria*, ♂. Nr. Galway, WG. R.A. Phillips 1.9.29
previously named sp.? by R.C.L.P.]
Pristiphora pallidiventris Hack ♀. Ballyhenry, Wi. 17.7.30.
Trichiocampus eradiatus ♀ on *Euonymus*, Deputy's Pass, Wi. 15.7.30.
Pteronidea ferruginea ♂. Templemore, N.T. R.A.P. 2.7.30.
Selandria morio ♀. Rathdrum, Wi. 26.7.30.
Fenusa dohrni ♀♀, on alder, " " ".
" " ♀♀, " ", Ennereilly, Wi. 27.7.30.
Ametastegia equiseti ♂. Kilcarry, Cw. 16.8.30.
Pteronidea sp. (near n. sp. of Devil's Glen). ♂ Rathdrum, Wi. 26.7.30.
" *dispar* ♂ Clara, Wi. 11.8.30.

1930 sawflies cont.

Selandria morio ♀. Ennereilly, Wi. 12-8-30.

Pristiphora pallidiventris, orange form of ♀ (? n. sp. says RCLP.)
Phoenix Park, Du. 19-8-30.

Amauronematus ♂ & 2 ♀♀ of same series as that on p. 1.
Dr. Perkins said these were either *vittatus*, or *cameroni* var. or another species near these! He also gave me 3 ♂♂ of genuine *cameroni* from material bred by him from larvae taken on Dartmoor.

List of Sawflies verified by R.C.L. Perkins
see list dated 17/4/31.

Bred from 1929 Larvae.

Ashdown, W1. 7.7.29. Amauronematus cameroni dark var. (or vittatus ♀ or n. sp. near these. Em. 6.5.30

Slade Brook, Glenasmole Co. Dl. 3.9.29 } Pteronidea ribesii 3♀♀ bred from Larvae on Salix!! Em. 4 & 11/5/30 & "July(?)" 30.
I think these must have come from larva on Ribes which did not emerge in 1929.

Garryduff, Co. W1. 29.9.29. } Pteronidea ferruginea 4♂♂, em. 18.6.30 & onwards.
Nematinus fuscipennis var. between this & luteus. Em. 19.5.30.

1930 catch.

Amauronematus viduatus ♂. E. side Lower reservoir, Glenasmole, Dl. 10/4/30.

Lygaeonematus mollis ♂. Oak wood, Clara, W1. 19/4/30.

Emphytus pallipes . On sand, Cahore, WX. 21/4/30.

Pontania collactanea (or Amauronematus sp. near viduatus or viduatus var.) ♀. On Vaccinium behind Osmunda glade, Clara, W1. 25/4/30.

Thrinax mixta - not seen! RCLP.
Empria tridens ♂♂ ♂ ♀♀. } Devil's Glen, W1. 26/4/30.

Blennocampa subcana . L. Dan, W1 – A.A. Liney. 27/4/30.

Dolerus liogaster 2♀♀. The Dingle, Dl. A.A.L. & AWS. 1.5.30.

Dolerus liogaster 1♀.
D. madidus 1♂ } Garryduff, W1. E.O'M. & AWS. 4/5/30.

D. oblongus? ♂.
D. madidus ♂ (♀ seen) } Morganstown Glen, W1. A.W.S. 4/5/30.

Empria sp. ♀. "probably liturata" on Marsh Marigold in Enniskerry marsh, W1. 18/5/30.

2nd June 1930 (late evening of very hot day) cool breeze. Upper part of Kelly's Glen, above Kilmashogue school, Co. Du. 7 till 9 P.M.

Bombus lucorum & agrorum ♀♀ seen.

Dolerus aeneus 1♂.

1 ich.

Salix pentandra just coming into flower & should repay working!

3rd June 1930. A very hot day.

First Crabro varius seen in garden at Mayfield, Harold's Cross for season 1930!

5th June 1930 see below!

6th June 1930. late afternoon, then dull & cool breeze. Coast at Kilcoole Station, Co. Wi., with C. Oldham, Father Kennedy & Peter Dunn.

Practically nothing flying & only a couple of ichs. taken.

Odynerus pictus ♀ seen at station.

5.6.30. Powerscourt deerpark, Co. Wi. With E. O'M. Fair day.
Sphecodes divisus ♀♀. Tenth. ~~balteata~~ atra ♂♂. Thrinax macula 2♀♀: with abnormal neuration, 1♀ v RCLP.
Selandria stramineipes ♀ v RCLP. Xylonomus pilicornis ♀. Ichneumon filicornis ♀
Pimpla examinator, small dark ♀; Tenthredopsis — red & black ♀.
Dolerus bimaculatus & germanicus as usual. Ophion Sphecophaga vesparum

[illegible]

[5/6/30. Cladius difformis ♀ v RCLP. taken in garden at Harold's Cross, Dublin]

8th June 1930. A perfect day, all sunny, & just a gentle sea breeze which did not interfere with collecting. With Palmer.

The Murrough, S. of Newcastle station, Co. Wi.

On coast unless otherwise stated. z = in marsh!

Bombus lucorum a very few ♀♀, mostly in marsh. [no terrestris!]

B. hortorum ♀♀ frequent, 1 ♀ seen, mostly at Anthyllis

B. lapidarius ♀♀ common. B. agrorum ♀♀ frequent.

B. derhamellus several ♀♀. B. muscorum ♀♀ common, 1 ♀ seen.

B. jonellus one ♀ seen (AWS).

Psithyrus rupestris at least 3 ♀♀ seen.

Ps. barbutellus several ♀♀ seen.

Ps. sp. 2 ♀♀ seen, probably worn distinctus.

Andrena albicans 1 very worn ♀.

[No Halicti seen]

Osmia aurulenta ♂♂ & ♀♀ mostly worn, common.

Sphex lutaria about a dozen seen, both sexes, one ♀ watched burying large green noctuid caterpillar. P.T.O.

Tachysphex pectinipes ♂♂ & ♀♀ very small, frequent

Pompilus gibbus ♂♂ & ♀♀ abundant

P. rufipes, ♂ (Palmer) swept along railway, ♀ seen (AWS).

Ceropales maculatus frequent. Pomp. plumbeus ♂♂ & ♀ seen.

8/6/30. The Murrough cont.
Tenthredopsis nassata 1♀ on grass.

About a dozen sp. of ichs. including one in marsh.

Bee Hawks moths abundant. M. aurinia just out in marsh S. of old C.G. Station.
Stratiomys furcata one in marsh: an early date (?).

8/6/30. The following is a brief account of the burial of caterpillar by ♀ Sphex lutaria mentioned on p. 130.
When I arrived at the spot the Sphex had just dragged caterpillar into burrow in sand-covered bank along railway, but the burrow was too short & the cat's. tail stuck out. Sphex was perplexedly worried at this & finally dragged out the caterpillar & frantically dug out more sand & lengthened burrow. At this stage I called Pelham, he arrived just after cat. had been again dragged into burrow, & I thought all was over. But no! Sphex was not satisfied yet & caterpillar was again pulled out & carried about for a time

With the help of Pelham's notes, after[illegible] written up & printed in Ent. Mo. Mag. June 1931. A.W.S.

& finally placed in a tuft of vegetation about a foot above the burrow. She then recommenced digging [illegible] large [illegible] of sand & being evidently satisfied [illegible] that the burrow was large enough [illegible] [illegible] the caterpillar [illegible] through the sand [illegible] pulled down [illegible] the hole. [illegible] had all been scraped in, she went fully down the bank & fetched up moss [illegible] filled in the hole with. She then became very busy [illegible] & rushed all over the bank going just a couple of feet away from the burrow but finally seized a small pebble [illegible] [illegible]

12th June 1930, afternoon! Dull, E. wind, after a warm morning & followed by a sunny afternoon.
Liffey Head bog, Co. Wicklow, ca. 1700 ft alt. 1.0 till 4-30 pm.
Tenthredella balteata ♂ in bog pool!
Tenthredo arcuata ♀ in bog pool! Dolerus aeneus? seen.
Bombus jonellus & lucorum ♀♀ seen, probably at Vaccinium.
Pimpla [illegible] ♂♂ abundant, many in pools.
[illegible] Bremus [illegible] Cop! ♂ & ♀?
[illegible]

Zootrephes rufirostris 1♀.

NB. Many insects on surface of pools. ? some had been carried up by E. wind from Glencree.

12.6.30 cont. Sugaring at Kippure Lodge, Wi. 5 till 6 pm. Very hot sun at times. A few ichs taken at birch trees.

[illegible] [illegible] ♀

[illegible] of 20♂♂

" " 1♀.

15th June 1930. A fine morning but turning dull with rain at 1 pm.
Drove via Laragh to Glenmacnass & home via Sally Gap & Feather Bed, Co. Wi.
Collected a few spp. in Glenmacnass, below Fall.

[15/6/30. Dineura testaceipes 2♀ — one a var.! (✓ R.C.L.P.) taken by R. A. Phillips at Kilbrush, Co. Clare. also Pristiphora ruficornis.

17th June 1930. Saw a very fresh ♂ Megachile centuncularis sunning itself on wall in garden at Mayfield, Harolds Cross, Du.

20th June 1930. Took a fresh ♂ Megachile willughbiella in same place in garden, Du. Also a couple of ichs.

22nd June 1930. A blustery day, with heavy showers & S.W. wind after 1 pm. Much sun in morning & between showers. 1 = left bank in morning; 2 = right bank in afternoon.
Athdown, Co. Wi. Both banks of R. Liffey by the footbridge, as in 1929!
Bombus lucorum ☿☿ & a few worn ♀♀. B. agrorum ♀♀.
B. muscorum ♀♀. B. jonellus ☿☿ abundant on raspberry.
Andrena jacobi 1♀ seen. A. cineraria ♀♀ frequent.
A. fucata ♀♀ common, ♂♂ worn. A. wilkella ♂♂ abundant, a few ♀♀.
A. angustior 1♀ by path down field, (? had been on Crepis?)
Halictus calceatus, nitidiusculus, leucopus, &c: ♀♀.
Nomada ruficornis 1♀, N. flavoguttata 1♀, both by path down field.
Crabro palmipes ♂, many seen but ? all this sp.
Pompilus gibbus, small ♀, P. nigerrimus 1♂.

Pamphilius (vafer?) ♀ on birch, top of left bank, as before.
Tenthredopsis 1♀, several ♂♂.

Tenthredo arcuata only a few seen.
Tenthredella ferruginea 1 black ♀. T. balteata common.
T. atra, T. livida & T. mesomelas common.
Dineura viridi dorsata ♀, ✓ R.C.L.P. on birch, top of left bank.
Athalia lineolata in oak wood.

P. T. O.

135.

22/6/30 cont. Ashdown cont.
Trichiosoma lucorum 1♀ on birch, at top of
left bank.
Dolerus niger ♀♀ common on oaks on rt. bank. D. aeneus 1♀ at 2.
Pimpla rufata ♂. P. maculator ♂.
P. oculatoria typical ♀ & ?? another ♀ like a
melanic form of same, with just trace of yellow at
top of inner orbit. Both taken
on Rowan tree at top of left bank above bridge.

Meadow Brown just out!

26/6/20 cont Knockmaroon cont.
Pemphredon ~~lugubris ♀~~ lethifer ♀ AWS. 3/11/30.
Bethylus (? fuscicornis) seen, but lost in grass.
Chrysis ignita v. common on "cliff"
~~Glypta bicornis v. rostrata~~

Ringlet butterflies out!

136.

26th June 1930. aft. Knockmaroon, Co. Dub.
Mostly dull & windy, but one half hour's sun
about 2.30. Worked old gravel pits facing
the river & road near N. end of Guinness' pri[illegible]
bridge.
In small pit nearer Dublin I took.
Andrena nigroaenea 1 very worn ♀.
Ichneumon sarcitorius ♂.
Glypta bicornis v. rostrata ♂

In larger pit further on :—
Bombus lucorum a few ☿☿ only.
B. muscorum 1 or 2 ♀. [B. lapidarius or Ps. rupestris
B. agrorum ♀♀ & ☿☿. 1♀ seen in distance!]
B. hortorum several small ☿☿ on Anthyllis flowers.
Andrena jacobi 1 worn ♀ seen.
Halictus rubicundus only 1♀ seen.
Hylaeus communis ♂♂ & ♀♀ ✓RCLP. common on blackberry flowers.
Except for drowned ♀ taken on 16/6/29 in my garden this
is really first definite Irish record. 1♂ has yellow on scape.
H. minutus 1♀.
Crabro varius ♂ & ♀. C. leucostomus ♀. C. dimidiatus ♂♂ & ♀.
C. capitosus 1♂, I think, taken on Sycamore leaf.

← cont.

137.

28th June 1930. Left Dublin at 2·40 & drove to Wexford, with J.A.J. Palmer, for week-end.

3-40 - 4 pm. Scarawalsh Bridge, Co. WX. Colletes montanus colony in parapets of the old bridge in full swing, but ~~[illegible] [illegible]~~ ♂♂ already worn and ♀♀ mainly fresh. Hundreds & hundreds seen flying in the sun.

5·0 - 6-30 pm. Sandpit in field at S. end of the wooden bridge, Wexford. Very little sun after our arrival & very windy.

Bombus muscorum 1 ♀. B. lucorum 1 ♀.
Andrena wilkella 2 worn ♀♀.
Halictus rubicundus, H. albipes, H. villosulus (1), H. nitidiusculus ♀♀.
Sphecodes divisus ♀♀. S. affinis ♀.
Colletes montanus? burrows on stone parapet of road to bridge.
Crabro peltarius ♂♂, rare, ♀♀ common, many carrying flies. ♀♀ varied much in size, but all noted gripped fly under hind legs "astride".
Arpactus tumidus 1 very fresh ♀ sitting on face of "cliff".
Myrmosa melanocephala 2♂♂, 1 ♀ with reddish head.
Pteronidea myosotidis ♀ ✓RCLP!, taken by Palmer.

138.

28. 6. 30 cont

Late in the evening took a ♀ sawfly, Emphytus pallipes ♀ ✓RCLP. sitting on bare sand in dunes S.E. of Curracloe House, WX (9 pm.!), where we had driven on & pitched camp.

Dunes at Curracloe, Co. WX.

29th June 1930. A dull morning, with a few bursts of sun between 9 & 10 AM, but wind SE & strong, barometer falling, & rain squalls from 11 AM till 9 pm. No sun after 10 AM. Began work at 8 AM. & took 1 ♀ Gonatopus about 8·40 AM in sand hollow where also Lasius niger. First sun at 9 AM. When many Colletes montanus appeared. After 10 AM. the only things taken or seen were along marsh on Heracleum &c:
Colletes montanus ♂♂ & ♀♀ abundant on Euphorbia, Leontodon, Rubus, Heracleum, Oenanthe &c:
Bombus agrorum ♀♀ seen on Scrophularia nodosa by Palmer.
B. muscorum ♀ seen & also a ♀ which was distinguendus?.
Pompilus plumbeus ♂♂ & ♀♀. P. rufipes 1♂, 1♀ (Palmer).
Hedychridium ardens 1 on Leontodon flower. Athalia lineolata ♂ & ♀ on Heracleum. Tenthredo arcuata.
Protichneumon fusipennis ♂♂ abundant on Heracleum.
Pimpla instigator 1 large ♀ on Heracleum (Palmer).
Melanichneumon [illegible] ♂♀. "Ctenichneumon" [illegible] 2♀♀.
[illegible]

29/6/30 cont. After rain, 9 till 10 pm.
Lanes W. of Curracloe & between that & main road to Blackwater. Several small sand-pits.
Halictus villosulus 3 ♀♀ dug out of a great colony of fresh burrows in one sand pit — on floor of pit!
Crabro peltarius also dug out of burrows.
Bombus distinguendus ♀ near Curracloe House at 10 pm. (Palmer).

30th June 1930. A warm misty morning with S–SE wind: some hot sun between 9 & 10 AM. after that dull & from 12 noon rain or mist till we got in sight of Dublin, where it had been very hot & fine all day but raining in the hills.

9-30 till 11·30 AM. Sandpit at Wexford, as before.
Considerable hot-sun bursts. Very warm!
Bombus lucorum 1 ☿ seen on White Clover.
Andrena carbonaria several ♀♀ seen at one of the smaller banks in bottom of pit: all very wary & wild.
One, rather worn, taken by Palmer. No sign of ♂♂.
[Should be looked for evidently in 1st or 2nd week of June!]

30·6·30 cont. Sandpit at Wexford cont.
Andrena wilkella several old ♀♀ seen.
A. gwynana 2nd brood 1 fresh ♂ taken.
A. [illegible] 1 old worn ♂ taken on bramble in small isolated pit in middle of field.
Halictus rubicundus 1 fresh ♂ on this very early date!
♀♀ common & some looked very fresh!
H. albipes, H. tumulorum & H. nitidiusculus ♀♀ seen.
Colletes (montanus ?) ♂♂ seen on thistles, ♂♂ & ♀♀ at bridge.
Crabro peltarius abundant, mostly ♀♀.
Salius exaltatus 1 ♀ dug out of burrow by Palmer.
Myrmosa melanocephala ♂♂ common.

30·6·30 cont. 12 noon till 2 pm.
Banks of R. Bann ① & sand pit at Clone ②, Co. WX.
Colletes montanus ♂♂ + ♀♀. C. daviesanus 1♂ at 2.
Hylaeus hyalinatus ♀♀ on Jasione & Leontodon at 2.
Myrmosa melanocephala ♂♂ at 2.
Crabro podagricus ♂♀ at 1 on Oenanthe.
C. chrysostomus ♂♂ at 1. C. peltarius at 2.
Nysson spinosus ♀ on Oenanthe at 1.
Halictus spp. seen at 2.
Tenthredella atra ♀ seen at 1. Tenthredo arcuata.

30.6.30 cont. Kildavin sandpit, Co. CW.
in heavy rain 2.30 pm.
Absolutely nothing seen!

30.6.30 cont 3 till 4 pm. Heavy rain.
Glen at Kilcarry Bridge, Co, CW.
Odynerus sinuatus } taken on Oenanthe.
Crabro varius }
Bombus hortorum ♀ seen at Foxgloves.
Lasius fuliginosus as busy as ever!

Afterwards left Kilcarry & drove home via Tullow district & Baltinglass, arriving Dublin at 6.30. Much morainic ground W. of Tullow!

Sat: 5th July 1930. A very hot soft day; all sunny till aft. but dull & very hot after 5 pm.
Garden, at Mayfield, Harold's Cross Dublin. 5.30 till 9 pm.
Megachile willughbiella 2 ♂♂ & 2 ♀♀ on Campanula.
Crabro varius common till 8 pm.
Currant Clearwing moth, 1 flying 5.30 pm. 1 on leaf 9 pm.
Several ichs. & 1 red Braconid:—

4th July 1930, late evening, 6.50 - 7.30 pm.
Old quarries at Sandyford, Co. Dub.
To look for Colletes, but none seen.
Several spp. of ichn. taken on Heracleum!:—
Alomyia debellator, 1 black ♂, 1 red ♀.
Pimpla "robusta" ♀. Mesoleius, ♀.

6th July 1930 A beautiful day after a dull morning & misty rain till 11 AM.
11.30 till 2 pm. Old sand pit facing river at Knockmaroon, Co. Dn. as before.
Bombus muscorum ♀♀. B. agrorum ☿☿. B. lucorum ☿☿.
B. hortorum 1 ♀ seen, many ☿☿, 1 fresh ♂ on Hypericum
Psithyrus sp.? a fresh ♂ seen, possibly Ps. barbutellus.
Andrena jacobi 1 very worn ♀.
Halictus several ♀♀ seen, probably common spp.
Hylaeus communis ♂♂ & ♀♀ abundant, very variable in size.
Crabro dimidiatus ♂♂ & ♀♀, latter carrying flies under left hind outer like peltarius did at Wexford.
C. varius ♂♂ & ♀♀. C. capitosus 2 ♂♂ & 2 ♀♀.
C. tibiale 4 ♀♀, new to Dublin. C. quadrimaculatus ♂
Passaloecus monilicornis 1 very small ♀.

6.7.30 cont. Knocknaroon, cont.
Chrysis ignita.
Elampus auratus ~~III~~ 5 ex. on small sycamore bush.
Pemphredon lugubris, 1 ♀.
Pompilus gibbus 1 worn ♀.

Glypta ceratites ♂. G. bicornis v. rostrata 2 ♂♂.
Lissonota bellator (?) ♂♂, fresh ♀. L. cylindrator ♀.
Pimpla maculator ♂. P. instigator ♂.

2nd brood of Speckled wood & Tortoiseshell out!

6.7.30 cont. 2-30 – 5 pm. Lucan demesne, Co. Du.
Almost all taken in old sandpit!
Bombus lucorum, agrorum ♀♀. B. hortorum, 1 ♂ on Rubus.
Vespa ♀♀ seen.
Andrena jacobi & wilkella old worn ♀♀ seen.
A. minutula ♂♂ & ♀ very fresh (seen by R.C.L.P.) 2nd brood! A. gwynana ♂ 2nd brood
Halictus rubicundus, tumulorum, nitidiusculus ♂♂ ♀♀.
Sphecodes monilicornis worn ♀♀ frequent. S. divisus 1 small ♀.

Crabro 4-maculatus ♂♂ & ♀♀ abundant.

6.7.30. Lucan demesne cont.

Ichneumon sp.? ♂. 1st 1930.

8.7.30. Mid-day: sunny & warm: garden at
Mayfield, Harold's Cross, Dublin.
Halictus leucopus ♀♀ collecting at Campanula portenschlagiana & N.Z. Veronica sp. ♂♂ abundant flying over privet hedge!

9th July 1930. A fine day, after a dull drizzling morning.
Warm, plenty of sun, some clouds, rather windy.
The Burrow, N. of Portrane asylum, Co. Du.
11.30 AM till 4 pm.

All labelled
Portrane N.
Co. DU. AWS.
9.7.30.

Bombus lucorum, agrorum, muscorum, hortorum ☿ & lapidarius ☿☿ seen.
B. terrestris? 1 ♂, worn, with black face but white tail.
Psithyrus distinctus 1 very fresh ♂: very yellow tail!
Halictus rubicundus ♀♀ on Reseda luteola.
Colletes picistigma 1 ♀ on Leontodon at N. end of "Burrow"

9. 7. 30 cont. Portrane N. cont.

Crabro wesmaeli common at N. end of Burrows.

C. palmipes ♂♂ & ♀♀ about old field ditches.

C. chrysostomus 2 ♀♀ on Reseda luteola in fields

C. peltarius 1 ♂, very large ♀♀ in fields on Reseda
& at N. end on Spurge.

Oxybelus uniglumis ♂♂ & ♀♀ common at N. end, on
sand, as well as on Carduus arvensis, & ?

Pompilus gibbus 1 ♀ at S. end on wild carrot.

Trachysphex pectinipes 1 ♂ on Wild Carrot

Pompilus plumbeus abundant. } particularly at
Ceropales maculatus abundant. } N-end!

Bethylus fuscicornis 1 taken, 1, larger, seen.

Athalia in fields! Tenthredo arcuata seen.

Pimpla brevicornis ♀♀ at N-end (? sp). P. maculator ♀

Lissonota bellator ♀. L. parallela ♂♂ common on wild carrot.

L. errabunda ♀.

Glypta ♂

9.7.30 evening! Garden at Mayfield, Harold's Cross
DU.

Megachile willughbiella ♂♂ & 1 ♀ seen.

M. ♂.

M. ? versicolor ♀ seen to enter flowers of pink
Snapdragon: always entered upside down, the
flower completely closing after it had gone in!

10th July 1930! morning: Front garden hedge, Mayfield, Harold's
Cross, DU. Halictus leucopus ♂♂ common on privet & flying along hedge!

ARKLOW TRIP. July 1930.

10th July 1930. Left Dublin, with George, at 2 pm. & arrived Arklow at 5 pm. A fine hot day in Dublin, but met a cold E. wind in Glen of the Downs & thence mostly dull.

Stopped at Ballyhenry quarry, Co. Wi. 3-4 pm.

Hylaeus ~~confusus~~ hyalinatus, many ♂♂ + 1 ♀, abundant on stone heap.

H. confusus ♂ on bramble flower.

No other aculeates seen & no sign of life at "cliff"!

10.7.30 cont

Walked to 2nd bay N of Arklow after tea! Took a small ich. in "Merton" on window, & a ♂ braconid, ♀, in bathroom.

11th July 1930. A dull morning, with some rain between 11 AM & 1 PM. Fine in afternoon, but glorious from 5 pm. on & all night.

Stayed at "Merton" all day with George, playing cricket in aft. & evening.

12th July 1930. A glorious morning, ~~dousing~~ turning dull, with chilly E. wind at intervals for rest of day after 11 AM. Drove to Ennereilly, & walked along dunes to Mizen Head & back, Co. Wi. 11 AM–1 PM.
Very little sun while there!

Bombus lapidarius ☿☿ abundant, agrorum, lucorum & muscorum also seen, also 1 ♂ jonellus in car.

Andrena fucata, 1 ♂ on spurge near Mizen Hd.

Colletes picistigma ♂♂ & ♀♀ common.

Labelled
Brittas Bay
12.7.30

Hylaeus minutus 1 ♂ on spurge, another seen.

Pompilus plumbeus ♀♀ frequent.

P. gibbus ♂ near Mizen Hd. (between this & outlet of river)

Ceropales maculatus common.

Tachysphex pectinipes 1 large ♀.

Sphex lutaria about 1 doz. ♀♀ seen.

Crabro 1 ♀ ? palmipes taken near Mizen Hd. but lost!

Odynerus 3-marginatus ♂ & ♀ on Sea Pink at Mizen Hd.

Cladius pectinicornis 1 ♂.

Lisonota parallela ♂♂ seen.

Red admiral fide George
flew into car on
drive home!
Grayling seen.

12-7-30 cont. Afternoon. Mostly dull & cool. Caught several ichs about "Merton", Wi.

13th July 1930 (Sunday). SE wind, a depression approaching, mostly dripping! Fine only in forenoon & for an hour between 5 & 6 pm. Very heavy rain & gale from 7pm all night.

Drove to Avoca, Co. Wi. & explored old lane on N. side of valley ¼ N. of Ballygarthan gate. Here saw or took:—

Bombus agrorum, lucorum, lapidarius (1) ☿☿.
Andrena fucata, worn ♀♀ (2) on bramble.
~~[illegible]~~
Tenthredella livida ♂ & ♀. Athalia lineolata seen.
Several ichs:—
Exetastes albiger ♂ :

13.7.30 cont. Afternoon. Arklow!
Walked across Kynochs' to first point & back but nothing out: very windy!

14th July 1930. Storm continues & mostly raining. In morning drove to Ennereilly with George & spent an hour at mouth of Redcross River, Co. Wi. Saw many Colletes picistigma on flowers at 1st point S. of river.

15th July 1930 Storm continues after pause in night. Early morning fine, but dull after 9 AM. Drove to Deputy's Pass, Co. Wi., 11.30 - 12-45 noon, where had been rain before my arrival & things just going in on approach of cold drizzle from South:—

Bombus muscorum, agrorum & lucorum ☿☿.
Psithyrus distinctus ♂.
Andrena coitana ♂ & ♀. G. [illegible] ♂.
Vespa spp. seen.
Athalia lineolata ♂ Trichocampus eradiatus vRCLB. ♀ on Euonymus.
Automalus alboguttatus ♂. on W. side of pass near fallen living oak.
Pimpla turionellae ♂. Phytodietus ♂.
cont.

15-7-30 cont. Rain commenced at 12-45 & getting heavier as day advanced had not ceased at 11 pm. At 5-30 pm. after heaviest rain saw Apis mellifera ☿☿ entering hole in ash tree on coast road N. of Ferrybank, where first noticed in 1926!

16th July 1930. Storm continuing. More or less dull & raining all morning: during one blink of sun I took 1♂ 2♀♀ Colletes picistigma on Thyme in hollow of dunes S. of Morriscastle gate, where I also saw a ♂ Megachile maritima.

Fine in afternoon, but very windy & no sun.

17th July 1930. Clearing! A fine morning along coast; "fair" inland. Drove to sandhills at Kilgorman, Co. WX 11 am. till 1 pm.

Bombus lucorum, agrorum & lapidarius ♀♀

Some ♂♂ lucorum also seen.

Halictus villosulus ♀♀ in dunes ~~S.~~ N. of road.

Pompilus pectinipes ♀ in usual spot N. of road.

P. gibbus ♀ on carrot by stream at foot of road.

P. plumbeus common.

Ceropales maculatus common.

17.7.30 cont. Kilgorman, WX. cont.

Salius exaltatus ♂♂ & ♀.

Mellinus arvensis seen by stream.

Crabro wesmaeli common.

Megachile maritima ♀ taken & another seen by stream carrying piece of leaf (? ~~point~~ piece of Salix leaf!)

Some ichs. taken: mostly on carrot by stream.

Lissonota parallela ♂♂ common

L. —— ♀ on spurge N. of road.

Glypta [illegible] ♀ ??

17.7.30 aft. Drove to Dublin

Stopped at Ballyhenry quarry for a few minutes.

Bombus distinguendus ♂ or fresh ☿ seen on bramble.

Vespa norvegica ♂ on bramble: 1st ♂ seen 1930.

~~Lissonota bellator~~

Pristiphora pallidiventris, a black ♀ ✓ R.C.L.P.

Also a couple of ichs. & small braconids taken in motor between Arklow & Ballyhenry!

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18th July 1930. Storm continues: strong NW-W wind & misty rain. Drove all back to Arklow: misty rain all the way as far as Redcross, but sun out at Arklow on arrival, though very windy & wind W-SW. Collected nothing!

18.7.30 cont. Afternoon: improving & some good sun bursts. Drove to Mrs. Cork's egg-farm S. of Inch & back to Arklow. Collected along roadside on carrots &c. S. of Inch, Wx.
Psithyrus rupestris ♀, very small & very worn.
Bombus hortorum ♂.
Pimpla examinator ♂. Lissonota bellator ♂.
[illegible]

18.7.30. 5-30-6.0 pm. Sunny, very windy.
Brickfields S. of "Merton", Arklow, Wi.
Lissonota bellator ♂. Glypta ceratites 1 ♂.
Athalia lineolata ♀. in swampy place.

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19th July 1930 Storm continues: very high W-SW wind all night, barometer rising at last, misty rain all morning, getting warmer.
In afternoon drove to Meeting of the Waters, Avoca, Wi & there collected along railway line from 2-30 till 5 pm. Very hot, very little sun, but flies very bad & most things out.
Bombus hortorum ♂. Also B. lucorum & agrorum ☿☿.
Psithyrus barbutellus ♂ seen.
Andrena humilis 2♀♀, seem fairly fresh, on ~~Leontodon~~ Crepis virosa flowers on side of ry. cutting between railway & river above the Castle Howard bridge (i.e. 1st ry. bridge over river N. of Meetings!). First record outside Cork & Kerry for Ireland & the first specimen I have taken.
A. coitana ♂ 2 & ♀♀. } at same place
A. tarsata 1 ♂ } on Jasione.
A. ~~minutula~~ subopaca 1 ♀, rather worn! [illegible] } Also 1♂ A. gwynana 2nd brood.
Hylaeus confusus ♂
H. hyalinatus ♀
Nomada obtusifrons ♂♂ + ♀, very fresh. Crabro dimidiatus ♂.
Crabro vagus ♀, Mysson spinosus ♀; Gorytes mystaceus ♀, all on Angelica
Athalia lineolata in scrub.
About 15 spp. of ichs. also taken: Lissonota bellator ♂ (not kept).
Glypta mensurator ♀. G. ceratites ♂. G. varicoxa ♂.
Pimpla inquisitor a small ♀?
3 Tryphonid.

19.7.30 cont. Meeting of the Waters cont.

Föenus* affectator ♀ on Angelica by ry. just above Castle Howard bridge.

20th July 1930. A dull day with keen N.E. wind & no real sun till we were starting for home, then all blue sky till dark. Most rascal out!

Meeting of the Waters, Co. Wi. 12 noon till 5 pm.
Bombus lapidarius ♂ very fresh & ♀♀. B. lucorum ♂♂.
Psithyrus distinctus ♂♂ seen. Add. to list of 19.7.30.
Andrena humilis 3 ♀♀ taken, 3 ♀♀ more seen, on ~~Leontodon~~ Crepis & one alternately on ~~Leontodon~~ Crepis virens & Hypochoeris & seeming to prefer the latter. All along sides of railway cutting as before. One heavily laden ♀ seen to cross river & subsequent investigation suggested that the species might be nesting on old cart-track on E. side of the river opposite cutting! Want of sun however prevented this being proved. All ♀♀ seemed fairly fresh!

Andrena coitana ♂♂ & ♀♀ common. A. tarsata ♂♂ & ♀♀ a few each & fresh!
A. gwynana 1 ♀ on Jasione (2nd brood).
A. denticulata 1 ♂ & 1 ♀ very fresh on Solidago.
Halictus rubicundus ♂♂ abundant, a few ♀♀ (? some fresh!)
H. villosulus 2 ♀♀, one very large. H. freygessneri, 2 ♂♂.
H. "smeathmanellus": Irish form: 1 fresh ♂.
H. leucopus ♂♂ & fresh ♀♀. Leptothorax [illegible] ♀?
Nomada obtusifrons 2 ♀♀. Sphecodes divisus 1 ♀ worn at burrow of H. rubicundus!
Hylaeus minutus 1 ♂ without any white tomentum on basal segment.
Apis mellifera (Dutch Bee?) nesting in big stump. [illegible]
Crabro vagus ♀♀ seen. C. leucostomus ♀♀. C. IV. maculatus 1 at 2nd bridge.
Psenulus pallipes: on birch near big stump at ry. bridge.
Megachile willughbiella ♀, var. hibernica.
Athalia lugens? A. lineolata?

Many spp. ichneumonids:— 2 ♀♀ Lissonotas at big stump & one ♀ Meniscus impressor seen there but missed.
Lissonota bellator on Cowparsnip. Glypta bifoveolata 1 ♂ and G. longicauda ♂ & ♀ on Cowparsnip.
~~Glypta~~ Lissonota [illegible] 2 ♀♀ ([illegible]).
Phytodietus

[illegible] (Tryphon) ephippium ♀ — [illegible] ♂ — [illegible]
[illegible] ♂ — Tryphon [illegible] ♀

20.7.30 cont. Meeting of the Waters, Wi cont.

20.7.30. evening. About a dozen larvae of [illegible] on Salix cinerea in brickfields at Merton, Arklow, Wi. taken into house. Apparently nearly ready to pupate. On 12.7.30 these seemed a couple of days old & were all together on their 2nd leaf of the willow, next to the leaf the eggs had been laid in!

Pupated from 22nd till 24th July & 4 ♂♂, 8 ♀♀ emerged from 15th till 19th August 1930!

21st July 1930. A stormy day, NW wind, very chilly, & only some odd sun-blinks.

Meeting of the waters, Co. Wi as before, 11-30-12-30 noon. Spent the hour watching supposed burrows of Andrena humilis but nothing seen. Hugh found Strangalia aurulenta ♂ sitting on the bracken. Took small Braconid in motor. Bombus muscorum, fresh ♂ on Knapweed.

21.7.30 cont - Afternoon: very little sun, chilly. Spent 2 hours in Webb's Glen, Arklow, Wi. Very little seen! About a doz. spp. of ichs taken!

Athalia lugens. A. lineolata.

Glypta flavolineata ♀ on ivy. G. ceratites ♂. Eclytus fontinalis ♂.

Pimpla alternans II ♀. P. detrita (?) ♂. Perilissus filicornis ♂.

Bombus jonellus ☿☿ on Rubus. B. lucorum, agrorum, hortorum ☿☿.

Bombus distinguendus ☿☿ on Rubus & C. arvensis.

Andrena coitana & Nomada obtusifrons ♂♂ seen on C. arvensis

22nd July 1930. A dull day, with high barometer & cold N-NW wind (strong).

Drove to Cahore, WX, but stopped for half an hour in quarry near Banoge sawmills, S. of Gorey.

11-30-12 noon. Banoge quarry.

Bombus terrestris, fresh ♂ on Rubus. B. distinguendus ♀.

B. hortorum, agrorum ☿☿.

No other bees seen, as too dull: a few ichs taken & 1 ♀ each Athalia lugens & lineolata?

Glypta flavolineata ♂♂

Lissonota variabilis ? 1 small ♀.

[illegible] ?

22.7.30 cont. Cahore, Co. Wx.

12.30 – 3.0 pm. Very little sun, though warm along coast out of wind. Worked strip of dunes S. of point & between that & track to beach.

[Bombus distinguendus ♂ flew into motor between Banoge & Cahore]

Bombus lucorum, lapidarius, agrorum, muscorum ☿☿ also lucorum ♂♂.

Psithyrus barbutellus ♂♂.

Andrena fucata ✓ one worn ♀ on Rubus.

Colletes montanus a few only seen ♂♂ & ♀ taken.

Colletes picistigma ♂♂ abundant, a few ♀♀ seen.

Tachysphex pectinipes several large ♀♀.

Oxybelus uniglumis frequent on Carduus arvensis

Ox. argentatus 1♂ at spurge.

~~Salius~~ Ceropales maculatus & Pompilus plumbeus abundant.

Pompilus rufipes 1♂, others seen on spurge.

Crabro wesmaeli abundant.

Aritranis signatorius
~~Stenichneumon pictus~~ ? ♀ on spurge near beach.

22.7.30. cont Cahore, cont.

22.7.30 cont. Left Cahore about 3 pm & drove west, crossing Ballycanew – Gorey road, to Carrickroe Hill, which ascended — rocky top, with bare ground (? burnt) & much Erica cinerea in flower at which many Bombus, including B. jonellus ☿☿, B. lucorum ♂♂ & ☿☿, B. agrorum ☿☿, B. muscorum ☿☿ very fresh!, B. lapidarius ☿☿. Also B. hortorum ☿☿ at Teucrium flowers. On N. side of the hill is remnant of an old Oak-Birch wood, but too dull & cold for anything to be out. Near summit are many seedling willows growing on bare ground (alt. ca. 700 feet) & on these were taken several nests of Pteronidea? larvae, which were brought home to rear. Also larvae of Puss Moth.

Both Pteronidea ?jugicola larvae pupated 26th July & 12 ♀♀ emerged on 22nd August 1930.

Braconid Phanerotoma dentata Pz. taken on bonnet of motor at Carrickroe Hill, WX.

23rd July 1930. Another dull day, with strong cold N–NW winds; but a little more sun, especially in the afternoon.

11-30 – 12-30 am. noon. Deputy's Pass, Co. W.
Work path ~~too~~ & old "garden" on E. side of pass.

Bombus lapidarius ☿☿, B. lucorum ♂♂ & ☿☿., B. agrorum ☿☿.
B. hortorum ☿☿ & ♂♂.
Prithyrus barbutellus ♂♂ & B. distinctus ♂♂.
Andrena minutula ? ♂♂ on banks round garden.
A. coitana ♀♀. Nomada obtusifrons ♂♂.
~~Hylaeus~~ confusus ♀.
Crabro varius
Trypoxylon clavicerum ♂♂ & ♀ at usual stumps.

"Lissonota" 2 ♀♀ on stumps: 1 = Meniscus impressor ♀.
Lissonota palpalis ♀ & also a ♂?

23-7-30 cont.
1-30 – 2-30 Rathdrum, Co. W. near goods station.
Too cold & very little seen.

2-30 till 4.50 pm. Some sun, not much out.
Meeting of the Waters, Co. W., above Castle Howard Gate, as before. All west of river, along railway unless otherwise stated. 23.7.30!

Andrena humilis 1♀ taken on railway at Hypochoeris, & one ♀ dug out of burrow on trackway on E. side of river thus proving that the species nests there; still no sign of ♂♂.
A. denticulata 1♂, 1♀ seen on Solidago.
A. coitana ♂♂ & ♀♀ seen. [A. minutula ? 1♀ seen.].
Nomada obtusifrons ♂, N. ~~flavoguttata ♀ 2nd brood!~~ obtusifrons a small ♀. A.W.S. 11.1.32! ?
Megachile versicolor 1♀ var. littoralis on Knapweed flower.
Crabro podagricus 1 on ivy at bridge (road to C. Howard gate).
C. varius & C. vagus ♀ seen.
Salius exaltatus ♂ & ♀♀ on E. bank of river.

23. 7. 30 cont. Meeting of the Waters cont.

Tenthredella ferruginea ♀♀. T. livida ♂ seen.

Pimpla ovivora ♀. Bassus tricinctus 1♂.

Glypta mensurator ♂ & ♀ (?♂). Phytodictus geniculatus ? ♂.

Polysphincta varipes ♀

Ampulex ? of [illegible] (not taken) ♂♂, 1♀ [illegible] at [illegible] on bridge over river.

Pygostolus sticticus ♀ ?

24th July 1930. A fine morning, but turning dull after 11 AM; subsequently only a few blinks of sun, wind W., not so cold; yet little out.

Meeting of the Waters, Co. Wl. as before

1. Left bank of river where Andrena humilis nests.

specimens from 2 & 3 all labelled "2".

{2. Right bank of river up to old saw mills (Parnell's)

{3. Ry. bank &c. at ry. bridge beside old saw mills.

Bombus lapidarius ☿☿, B. lucorum ♂♂ & ♀♀, B. agrorum ☿☿.

B. muscorum ☿☿ at heather (E. cinerea) by railway below 3.

B. hortorum ☿☿. B. derhamellus ~~[illegible]~~ ☿, ♂ on Rubus by railway below 3.

Ps. distinctus ♂♂. Ps. barbutellus ♂♂ & ♀♀.

Andrena wilkella ♂♂ & ♀♀.

A. minutula ♂

24. 7. 30 cont. Meeting of the Waters cont.

Andrena humilis many ♀♀ seen at burrows on old track through the scrub at 1. Not a trace of a ♂.

Halictus rubicundus ♂♂. H. albipes 1 fresh ♂, ♀♀ seen.

H. tumulorum 1 fresh ♀ seen. Sphecodes divisus 1 very worn ♀.

Nomada obtusifrons ♂♂. N. ruficornis 2♀♀ on ragwort at 1.

Crabro varius frequent & nesting in sand with A. humilis

Mellinus arvensis seen.

Odynerus sinuatus ♀ at 3. Vespa spp. (♂♂ of norvegica)

Pompilus nigerrimus ? ♂ at 1.

Athalia at 1 & 2.

Automalus alboguttatus ♂ in scrub at 1.

Glypta mensurator ♀ (?) stabbing thistle head (C. palustris) with terebra at 2. G. evanescens 1 small ♂ at 1.

Pimpla ovivora ♀ at 1. P. inquisitor (?) 2♀♀ at 1.

Phytodictus obscurus ? ♂ at 1. Lampronota caligata 1♂ at 2 & 3.

Perilissus filicornis ♂ at 2 & 3. [illegible] ♀ at 2 or 3.

Trematopyga nigra [illegible] ♀ at 2 and 2. [illegible] ? ♂

25th July 1930. Another mainly dull day: wind round to S-SE, very strong: depression approaching: only short spells of sun in forenoon, none later.
Clara, Co. Wl.

1. Right bank of river for 1/4 mile below bridge.
2. Oak-woods & sand-flat (1 mile below bridge) on left bank of river.

Colletes succinctus 1 fresh ♂ at 1 on gravel flat.
Bombus jonellus 1 ♂ in wood. B. agrorum ☿☿.
B. lucorum ☿☿ & 1 fresh ♀ seen in wood.
Andrena saundersella (♀♂)✓ fresh 1 ♀ at 1. A. tarsata a few ♀♀ at 2.
A. [illegible] ♀ at 2 ? A. coitana ♀♀ at 1.
Halictus villosulus ♀♀ at Crepis virens at 1.
H. rubicundus ♂♂ abundant at 2, some at 1.
H. albipes 1 ♂ at Crepis at 1.
Nomada obtusifrons 2 ♀♀ at 1 on Crepis.
Pompilus gibbus 1 very fresh ♀ on Angelica at 1.
[P. approximatus. None seen at 1 on gravel flat.]
Crabro vagus 1 ♀ on Angelica at 1.
C. podagricus 4 ♀♀ on Angelica at 1
C. varius frequent at 2.
C. peltarius ♀♀ very abundant at 2: more abundant than I have ever seen before on the sand-flat; the only one seen carrying a fly did so under the right hind "osten".

25.7.30 cont. Clara cont.

Mellinus arvensis in extraordinary abundance in field at 1

Athalia at 1 & 2. [illegible] ♂ at 2
Tenthredella livida ♂♂ seen at 2

Automalus alboguttatus 2 ♂♂, 1 ♀ in oak-woods at 2.

Pimpla rufata at 2. Pimpla [illegible] ♂♂ at 2.
Glypta ceratites at 1 & a ♀ at 2 ?
Polysphincta varipes ♀ at Oenanthe crocata at 1.
Phytodietus [illegible] ? ♂ at 2.
Lissonota errabunda 1 ♂ at 1.
Lissonota transversa ? ♂♂ at 1. L. ♂ at 2.
Homocidus pictus ? ♂ & ♀ at 1. Homocidus [illegible] ♂ at 2.
Mesoleius [illegible] ♂ at 2. [illegible] ♂ at 2.

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26th July 1930. After a wet night, a soft warm day with lots of very hot sun, wind rather high S–SW.: Showers in afternoon.

Rathdrum, Co. Wi.: right bank of valley from station to Avondale

1. Near station. 2. near Avondale footbridge.

Bombus lucorum ☿☿, & 1 or 2 ♂♂. B. agrorum ☿☿.
B. muscorum several ☿☿. B. lapidarius ☿☿, 1 ♂.
Andrena coitana ♂♂ & ♀♀. A. fucata ? old ♀ seen on Rubus at 2.

Halictus rubicundus, H. freygessneri ♂♂.
Sphecodes affinis ♀ seen at 1.
Nomada obtusifrons ♂♂ & ♀♀.

Mellinus arvensis ♂♂ abundant, also a few ♀♀.
Gorytes mystaceus 1 ♀ seen on Angelica below viaduct.
Crabro varius frequent. C. vagus common.
[No other spp. of Crabro seen during day & no sign of C. aphidum at either of its stations]
Pemphredon shuckardi 1 ♀.
Pompilus nigerrimus ♂♂ & ♀ seen near 2. Also ♂ at 1.
Salius exaltatus ♂♂ & ♀♀ at 2.

168.

26.7.30 cont. Rathdrum cont.
Tenthredo arcuata only a few seen: seems unusually scarce this season!
Tenthredella livida a few ♂♂ seen at 1.
Athalia
[illegible] 2 ♂♂ on footbridge at 1 {= a sp. ? near n. sp. of the Devil's Glen! RCLP. = Pt. fuscarina Benson fide Benson 1931.
Selandria morio 1 ♀ ✓RCLP. near 2. S. serva 1 large ♀ at 2.
Fenusa dohrni ♀♀, many, on alder at 2. ✓RCLP.
Zaraea fasciata ♀ sitting on Salix caprea leaf at 1.
Stilpnus gagates 1 ♂.

Pimpla rufata ♀ at 1 P. instigator ? ♀. P. detrita ? ♂.
Lissonota cylindrator 2 ♂♂, 1 ♀.
Lissonota femorata 4 ♀♀ at big log at 2. L. deversor 1 ♀
L. [illegible] ♂♂ ♀♀ L. bellator ♂♂ & ♀♀ on Angelica
Glypta [illegible] ♂♂ ♀
Glypta ceratites 2 ♂♂. Lissonota cylindrator ? ♂
[illegible] on Angelica below viaduct with [illegible]
[illegible] of Ichneumonidae.

Some spp. including 2 Bassids on gorse near viaduct.
[Mesoleptus or Hypamblys ♂♂ ♀ [illegible] the Bassids [illegible]
on 8/12/31 [illegible]]

27th July 1930. A wild day, with strong S.W. wind & showers passing over hills all day (few on coast), much sun near coast & inland to Croghan.

11 AM till 12-30 noon.

Sandhills ② S. of Ennereilly, Co. Wl. & scrub in valley inland of road (1).

Bombus distinguendus ~~♀♀~~ a small ♂ on Thymus. B. lucorum ♂ & ♀♀.
B. agrorum, muscorum & lapidarius ♀♀.
Colletes picistigma ♂♂ & ♀♀ fresh & abundant on Carduus arvensis, Achillea millefolium &c at 1, on [illegible] at 2.
Megachile maritima 1 fresh ♀ at Thymus at 2; Ash leaves cut in scrub at 1.
Odynerus ♀ seen at 1 (probably parietinus!)
Crabro varius ♂ at 1

Athalia at 1. Allantus cinctus seen at 2
Fenusa dohrni ♀♀ on Alder at 1. Tenthredo arcuata at 1

Protichneumon fusorius ♀ amongst bracken & thistles at 1.
Pimpla detrita ? a ♂ at 1.

27.7.30 afternoon. Very stormy, but considerable sun. Drove via Inch, to Kilanierin, Ballynestragh, & Hollyfort to Gorey & home by main road, Co. WX.

Stopped to collect at :—
1. = Larch Hill, S. of Inch [labelled "near Inch"], by roadside.
2. = roadside at Kilanierin.
3. = heath & boggy pasture N.W. of Ballynestragh.

Bombus distinguendus ♂ & ♀♀ at 3. B. lucorum & jonellus ♀♀ at 3.
B. hortorum ♂♂ on Rubus at 1 & 3. B. agrorum & muscorum ♀♀ at 3.
Psithyrus campestris ♂ var. francisanus (1st ♂ 1930) at 1.
Andrena tarsata ♀♀ commonly nesting in ditch (earth & stones) & amongst Calluna on heath path at 3. Quite fresh.
Halictus nitidiusculus ♀ at 1. H. rubicundus, albipes & calceatus ♂♂ at 1.
Salius exaltatus ♀.

Glypta ceratites ♂, at 1 or 2?. G. longicauda 1 ♂ at 2.?
Lissonota bellator ♀ seen at 1. L. errabunda ♂♂ & ♀♀ (?) on Wild Carrot at 2.

Exetastes guttatorius ♂ at 1 on Heracleum. Banchus volutatorius ♀ (at 2).
Pezomachus ♀, very small, at 3?.

28th July 1930. A wild day after a fine night. Heavy misty rain from 11 AM till 1pm: afternoon with terrific showers & fine intervals but wind (SE–S) so strong that little or nothing out.

2.30 till 4 pm. Sandhills at Kilgorman, WX
Bombus terrestris ♂♂ & 1 fresh ☿ at Carduus arvensis.
B. lucorum ♂♂ & ☿☿. B. agrorum & lapidarius ☿☿.
Psithyrus barbutellus ♂.
Colletes picistigma a few seen.
Salius exaltatus seen on Wild Carrot.
Pompilus plumbeus & Ceropales maculatus a few each seen.

About a dozen ichs taken by stream behind dunes.
Exetastes illusor ♂ & ♀. Cremastus geminus ♂
[illegible] [illegible] ♂♂ ♂

Also a [illegible] with dark fore wings which I thought came from near Inch (not taken) but [illegible] when labelled!
A.W.S. Dec [illegible]

28.7.30. 4.30 pm. A few specimens taken on carrot at railway bridge 1 mile S. of Inch station.
Athalia lineolata.

29th July 1930. Almost a wet day so frequent were the heavy showers & though hot sun between them no collecting was possible.
Took a fresh ♀ of Bombus derhamellus in brickfields behind "Merton", Arklow, WI. on Ajuga reptans.

30th July 1930. A showery day, with fine hot sun between. With J. F. Perkins!
Drove via Carnew to Kilcarry Bridge, Co. CW.; then to Scarawalsh Bridge & Clone sandpit, Co. WX; then home.
Stopped beyond Craanford, Co. WX., to look for sawfly larvae but none seen. Two Crabros taken by J.F.P. on Angelica ? C. chrysostomus.

12-30 – 3-30 PM. Kilcarry Bridge, Co. CW.
Bombus derhamellus 1 ♂.
Andrena rosae 1 very fresh ♂ (2nd brood) on Carduus arvensis at top of field N. of road, W. of bridge.
A. denticulata 1 fresh ♂. A. coitana ♀♀.
A. minutula ♂♂ (2nd brood) ?
Halictus rubicundus, calceatus, albipes, tumulorum ♂♂.
H. rubicundus, villosulus ♀♀, also fresh tumulorum ♀.
Nomada rufipes ♂ & ♀.

30.7.30 cont. Kilcarry Bridge, CW. cont.
Crabro varius.
Salius exaltatus ♂ taken, ♀♀ seen.
Myrmica schencki 1☿, running on path at usual place, with
M. rugiinodis & scabrinodis.
Lasius fuliginosus ♂♂ & ☿☿ at nest, as usual.
Perithous divinator ♀. Lissonota bellator 2♂♂ (1 a freak).

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4. pm. Scarawalsh Bridge, Co. Wx.
Colletes montanus. A few ♀♀, but no ♂♂, still about.

30.7.1930.
4.15 – 5.0 pm. Sandpit at Clone, Co. Wx.
Very little to be seen but common things!
Colletes daviesanus 1 very large worn ♂ at cliff.
Megachile [illegible] 1♀ on Knapweed.
Myrmosa melanocephala ♀ seen enter burrow under small pebble.
Pimpla brevicornis ♀.
Cryptus ♀

31st July 1930. A fine day, but mainly dull & cool E. breeze.
Brittas Bay, S. of Mizen Head, Co. Wl. Sand-dunes.
Bombus terrestris a few ♂♂ on Sea Holly. B. lucorum ♂♂ & ♀♀.
B. jonellus ♂ faded (J.F.P.). B. hortorum seen. B. agrorum ☿☿.
B. muscorum ♂♂ & ♀♀.
Psithyrus barbutellus ♂♂.
Colletes picistigma common.
Halictus rubicundus ♂♂.
Hylaeus minutus ♀ ?
Odynerus 3-marginatus ♂ at Mizen Hd.
Pompilus rufipes very fresh ♂ & ♀ given to J.F.P.
" gibbus ♀ (?) (J.F.P.). P. plumbeus (abundant).
Tachysphex pectinipes several ♀♀. Ceropales maculatus
Sphex lutaria ♂ taken, ♀ seen by J.F.P.

Allantus cinctus 1 . Tenthredo arcuata frequent.

Large Anomalid ♂ & ♀ taken in cop. Also odd specimens frequent.

Lissonota parallela ♂♂ & ♀♀ common. L. commixta 1♂. Pimpla brevicornis ♀.
Ceritranis signatorius
~~Stenichneumon pictus ?~~ ♀.
Cremastus geminus ♂, ♀♀ seen.

1st Aug. 1930. As bad a day as ever was! Wind SE, E, to NE & heavy rain all day & next night. Drove to Meeting of the Waters to collect larvae of sawfly seen previously on Hazel leaf, which Dr. Perkins thinks might be Pteronidea melanocephala. (later R.C.L.P. said it could not be this! A.W.S.)

On 21st June 1931 an ich. emerged from one of above which seems to be a ♀ Eclytus praeclarus, Schmied., described in Opuscula p 2559 from a single ♂.

2nd August 1930 Cleared about noon when wind swung round to SW - W.

12 noon till 4 pm. Sand-dunes & cliffs at Arkintinny, S. of Arklow Head, Co. Wi. Some sun, heavy showers.

Bombus terrestris 1 faded ♂. B. lucorum ☿☿.

B. hortorum ☿☿. B. muscorum ☿☿ (2 only), B. agrorum ☿☿.

B. lapidarius ☿☿. B. derhamellus several ♂♂.

Psithyrus rupestris 1 ♂.

Colletes succincta ♂ & ♀ very fresh (J.F.P.). C. picistigma ♀.

Hylaeus hyalinata ♀.

Halictus rubicundus 1 ♀ seen. H. calceatus, albipes, nitidiusculus & punctatissimus ♂♂ on C. arvensis & Ragwort. H. villosulus ♀.

Salius exaltatus ♂ & ♀. Pompilus pictus ♀.

Ceropales maculatus.

Mellinus arvensis.

2.8.30 cont. Arkintinny cont.

Tenthredo arcuata

About a dozen ichs. Pimpla turionellae 2♂, & P. "flavicoxa" 1♂. P. detrita 2♂.

Glypta ceratites 1 ♀. G. "nigrotrochanterata" (long terebra!) 1♀.

Acroricnus macrobatus 1 large ♂. Exetastes illusor ♂.

Promethes ♂.

2-8-30. 4-30 – 5-30 pm. River side & railway, 1 mile W. of Arklow, Co. Wi. (i.e. at "Bally Lane"). Very sunny.

Bombus lucorum, agrorum, hortorum, lapidarius ☿☿.

B. derhamellus ♂ seen.

Psithyrus barbutellus ♂♂ common on Knapweed.

Andrena denticulata ♂♂ & ♀♀ common on Ragwort & Solidago.

A. coitana ♀♀.

Nomada rufipes ♀♀. N. obtusifrons ♂♂ & ♀♀.

[Megachile willughbiella ♀ at 7-30 pm. on bramble leaf. George M. Stelfox] taken

Salius exaltatus ♀.

Gorytes mystaceus ♀. given to J.F.P.

All specimens given to J.F.P.

3rd August 1930. A wet morning, with much misty rain or showers throughout the day; followed by a wet night. Some short sun burst in afternoon.

Drove J.F.C. to Glendalough & walked to upper end of Upper Lake & back to R. Hotel. Discovered a fine looking gravel flat between Glendalough & Derrybawn House, which must be looked at next year.

1-30 till 4.0 pm. Valley below fall, Glenmacnass, Co. W. River in great flood, fall very fine; only some odd sunbursts & very little out. Collected some larvae of Pteronidea on small bush of Salix cinerea × aurita (?) by river near swamp. Some only just hatched some still in egg.

Bombus agrorum, muscorum, lucorum & lapidarius ☿☿ seen.
Andrena tarsata 2♀♀ on Angelica in swamp.
Tenthredo perkinsi ? ♀.
Pimpla inquisitor brevicornis ? ♀. P. turionellae v. flavicoxis ♂.
P. maculator small dark ♀. Phytodietus ♂.
Lissonota bellator ♂♂ ♀ seen
♀ Tryphonids, Mesoleptus fasciatus ! Tryphon [illegible]
Perilissus filicornis. Exenterus ? a sp. ?
Very common small [illegible] on Salix [illegible] small [illegible] in [illegible] & [illegible]

[at 9 p.m. I took a ♀ Proctotrypid at Salix in old lane leading to Templerainey graveyard, N. of Ferrybank!]

4th August 1930. A dull morning, turning fine about midday & a glorious afternoon (2 till 5 pm.), with a terrific shower between 5 & 6 on way home.

Drove via Deputy's Pass, & Garryduff X roads to Head of Devil's Glen, Co. W.

11-15 AM. Stopped between Drumdangan & Ballydowling (W of Glenealy) on way to Garryduff to look at willows for larvae but none seen.

11-30 – 12-30 Stopped at Garryduff X Roads to collect sawfly larvae on Willows (S. cinerea & ? cinerea-aurita). Several families very young & at least 3 kinds of Pteronidea.

Pteronidea ferruginea

1.0 till 5.0 pm. Devil's Glen, W. from above.
Bombus agrorum, muscorum, hortorum, jonellus (?)
B. lucorum ☿☿. B. lapidarius ☿☿ also.
B. derhamellus, ♂ (George!). Also ♂♂ of lucorum, very yellow.
Psithyrus barbutellus, frequent, ♂♂. B. distinguendus ♂. (2 have all yellowish tails!)
B. [illegible] ♀. ? ? ♂♂?

Devil's Glen cont. 4. 8. 30.

Halictus rubicundus, calceatus, albipes, tumulorum ♂♂.
H. rubicundus & villosulus ♀♀.
Hylaeus hyalinatus ♀.
Sphecodes affinis 1 large ♂. Sph. affinis ♂ (J.F.P.).

Mellinus arvensis ♂♂ & ♀♀
Crabro cetratus ? one ♀ seen to enter burrow in log above top of wood. C. vagus 1 ♂ seen on Angelica in glen.
Odynerus 3-fasciatus ? 1 seen at Rubus.
Ceropales maculatus. A highly coloured ♂ on Angelica at top bridge over side glen.

Athalia
Tenthredo perkinsi
Cladius pectinicornis 1♂ on ash in glen.

Many ichneumons in glen but mostly ♂♂ of Cratichneumon, Amblyteles, Ichneumon &c. none of interest seen.
Glypta ceratites ♂ & ♀. Lissonota transversa ? ♀ with reddish abd.
Triclistus congener ♂ ?
Heteropelma calcator ♀

5th August 1930. A fine sunny day with soft SW breeze & new depression approaching at night.
Kilcarry Bridge, Co. ~~Wx.~~ C.W. With J. F. Perkins.
1. = Glen of the Glasharrigh River, as before.
2. = swamp on left bank of Slaney above (200 yards) Kilcarry Bridge, at foot of small tributary glen.

Bombus lucorum ♂♂ & ♀♀. B. agrorum ♀♀.
B. hortorum ♀♀. B. lapidarius ♀♀. B. derhamellus ♂♂ 1 or 2.
Psithyrus barbutellus ♂♂ & several fine ♀♀.
Andrena minutula ♂ above corn field between roads; ♀♀ on path to marsh at 1 (J.F.P.)
A. denticulata several fresh ♀♀ on ragwort.
A. marginata 1 very fresh ♂ on C. palustris in marsh at 1.
A. rosae 1 ♂ each & many ♀♀ on both sides of old road west of bridge, on right bank of stream at 1 & at 2. All on Angelica, except 1 ♀ on Heracleum; 1 ♀ on Angelica when disturbed flew to flower head of Meadow Sweet & seemed to rest in it.
A. coitana a few ♀♀ seen.
Halictus rubicundus & tumulorum ♂♂ & ♀♀.
H. villosulus ♀ at top of corn field.
H. calceatus & albipes ♂♂.

181.

5.8.30 cont. Kilcarry Bridge, CW cont.

Nomada rufipes 1♀ given to J.F.P.

Sphecodes spp. a large series of ♂♂ on Angelica at 2 one small specimen with almost black abdomen. These seem to be divisible into affinis, very small divisus & middle-sized divisus. No ♂ Halicti taken on flower heads with them!

Crabro vagus ♂♂ & ♀♀ on Angelica at 1 & 2.
C. varius path to 1 (J.F.P.).
C. podagricus ♂♂ & ♀♀ common round Angelica at 1 & 2.
C. chrysostomus ♂♂ on Angelica at 2.
Mellinus arvensis abundant.
Pemphredon lethifer ♀ ? on angelica at 2.
P. lugubris (J.F.P.).
Odynerus sinuatus at 1 & 2.
Vespa norvegica, sylvestris, rufa ? & vulgaris seen.
[illegible] on Angelica at 2.

Athalia
Selandria serva ♂ at 2; also ♀♀ at 1 (J.F.P.)
Tenthredo "arcuata" 2 pairs in cop. taken & kept separate.

182.

5.8.30 cont. Kilcarry Bridge, CW cont.

Tenthredella atra ♀ on Angelica munching "Soldier Beetle"
Phyllotoma vagans ✓RCLB. ♂ on alder in marsh (J.F.P.)

Strongylogaster lineata ♀ (J.F.P.).

Ichneumon lugens ♂ on Angelica at 2.
[illegible]

Pimpla "robusta" Morley". ♀ at 1.
Glypta "mensurator" ♀♀ of ~~[illegible]~~ both forms, i.e. with normal & very long ovipositor. ? one or two ♂♂. [illegible]
G. [illegible] ?? ♂ with very elongate body
Lissonota cylindrator ♂, " " " " & red apices to segments.
[illegible]
[illegible]
[illegible]

M.D.S. saw Red Admiral by path at 1.

6th August 1930. A fine day but not much sun till the afternoon, when too late. Strong SW wind, rising glass. Cahore, Co. WX. With J.F.P. & E. O'Mahony.

Bombus distinguendus ♂♂ & very fresh ♀♀ on head & in lanes.
B. terrestris ♂♂. B. lucorum ♂♂ & ☿☿. B. agrorum ☿☿.
B. derhamellus 1 or 2 ♂♂. B. jonellus ♂. B. muscorum ♂♂ & ☿☿, very fresh.
B. lapidarius ♂♂ & ☿☿. B. hortorum ♂♂, ♀♀ & ☿☿.
Psithyrus campestris 2 black ♂♂ & 1 ♀; 1 pale ♂.
P. barbutellus ♂♂ & ♀♀ common; one very fresh ♂ has strong yellow band on tail!
Andrena gwynana, fresh ♂ of 2nd brood in lane behind dunes.
Colletes montanus 2 ♀♀, very worn, on Carduus arvensis & Malva moschata
C. picistigma ♂♂, worn, & ♀♀, some very fresh.

Crabro wesmaeli abundant. C. vagus 1 ♀ on C. arvensis.
Mellinus arvensis abundant.
Pompilus rufipes 2 (Perkins). P. plumbeus abundant.
P. gibbus ♀ in lane behind dunes.
Ceropales maculatus abundant.
Tachysphex pectinipes frequent.
Hedychridium ardens several

6.8.30 cont. Cahore, WX. cont.
Oxybelus argentatus 1 ♂ on C. arvensis (given by J.F.P.)
O. uniglumis several.
Bethylus fuscicornis ♀ (O'Mahony).

Tenthredo arcuata & atthalia seen.
Allantus cinctus ♂

Lissonota parallela ♂♂ & ♀♀ seen.
Glypta mensurator 1 each typical ♀ & ♀ with long ovipositor, the latter & 1 ♂ with considerable amount of red on abdomen & ? same sp.
Pimpla "brevicornis" ♀, very small.
Banchus volutatorius ♂ & ♀.
"Cremastus" geminus ♀.
[illegible] unitaeniatus? [illegible]
[illegible]

7th August 1930. A fine day, after a dull morning but with strong SW–W winds, showers & little sun till 3 pm. Drove via Shillelagh to Tullow, then via Mountwor Bridge to Hacketstown & home via Tinahely. 70·5 miles.

~~12-30 pm. Stopped for lunch~~

12-30 Stopped at ry. bridge 1 mile N.E. of Tinahely station. Very good marsh full of horsetails & rushes for Dolerus in May. Collected a few Athalia & 1 ich. Saw Tenthredo arcuata.

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7. 8·30 cont.

1·30 - 2.0 pm. Stopped on roadside 3/4 mile N.W. of Shillelagh, Co. Wi. Poor ground: nothing of importance seen.

7·8·30 cont.

2-30 – 3.0 pm. Stopped on roadside about 1 mile E. of Derreen River, Co. Wi, where plenty of Scabiosa arvensis & Knapweed.

Bombus lucorum, lapidarius, muscorum, agrorum & derhamellus (♂ only)

7-8·30 cont.

Halictus albipes & calceatus ♂♂ only.

No other aculeates seen!

T. arcuata abundant & variable: series taken by J.F.P. also × pairs [illegible] cop. taken by [illegible]

Several ichs: but mixed with next lot.

7-8·30 cont.

3-15 pm. Roadside at Tullow ry. station = 1.

3-20 — 4-0 pm. Old sandpit 1 mile (?) SE of Tullow on road to Rathglass Bridge := 2. All Co. CW.

4-15 – 5-0 pm. Old sandpit just E. of Mountwor Bridge nearly 4 miles N. of Tullow, Co. CW. = 3.

Bombus terrestris 1♂ at 2. B. lucorum common; one dwarf ♂ on Ragwort at 3 only size of jonellus!

B. muscorum & agrorum common. B. derhamellus ♂♂ at 1, 2 & 3.

B. hortorum 1♀ at 3. B. distinguendus ♂♂ & ☿☿ at 1 & 2, rare, one very small worker at 2 (J.F.P.).

NB. Those from 3 labelled "Tullow (3)", but those from 1 & 2 merely labelled "Tullow".

Psithyrus barbutellus ♂♂ at 1, 2, 3.

Halictus albipes & calceatus & to rubicundus ♂♂; former 2 at 1, 2, 3
last only at 2.

H. albipes fresh ♀♀ at 3.

Odynerus [illegible] at 3 (J.F.P.)

Pemphredon shuckardi 1♀ on stump at 3.

P. lethifer 1♀ at 2 (J.F.P.) on Wild Carrot.

7.8.30 cont. Tallow district cont.

No Vespa seen.

Athalia spp. & T. arcuata common.

Pimpla turionellae ♀   Glypta mensurator 'var.' with long terebra ♀.

Promethes ♂.   Exochus incidens ♂.

Cryptid ♀ with 'Ichneumon' in [illegible]

8th August 1930. A dull day, with misty rain in late afternoon. Co. Wi.

Drove to head of Glenmalure & collected about ford of Baravore & moraine from noon till 3 pm. Warm, little wind but only one or two glimpses of sun & very little out.

Bombus lucorum & agrorum a very few ♀♀. B. hortorum 1 ♀

[Andrena fuscipes not yet out!]

Halictus albipes (?). ♂ (?) seen by J.F.P., ♀ (?) seen by A.W.S.

Mellinus arvensis common.

Crabro palmipes ? 1 ♀ taken, others seen on bracken, at 1,000 ft. (J.F.P.)

Myrmica ruginodis "swarming". ♂♂, ♀♀ (& ♀♀) seen.

Glypta elongator ♂ & ♀ on rushes in marsh

G. bicornis v. rostrata ♂ in rushes with last.

8.8.30 cont. Baravore cont.

Several other spp. of ichs taken on Salix aurita by circular moraine.

Phytodietus ♀   Lissonota commixta? ♂

Metacoelus ~~mansuetor~~ flaviceps (? where taken: I don't remember: & it might just possibly have come from the motor! AWS).

Chelonus ♂ (? latrunculus Marshall).

Dolerus aeneus 2 very metallic ♂♂ taken by J.F.P. on S. aurita at 700 ft. above circular moraine. Apparently 3 or 4 found!

8.8.30 cont.

Drove over pass from Drumgoff to Aghavannagh, Co. Wi. Collected ichs on Angelica just before Aghavannagh & also in woods at Strangalia marsh in woods opposite Coolballintaggart, where J.F.P. took one ♂ Strangalia 4-fasciata but rain coming on we had to leave.

Ichneumon   ♂.   J.   ♀.

Glypta mensurator 2 ♀♀. Lissonota bellator ♂ & ♀.

Lissonota cylindrator ? 1 ♂, rather peculiar specimen!

9th August, 1930. A fine warm day, with sun in morning & afternoon, dull at midday.
R. Bann (left bank) from Bann Bridge to sandpit on railway at Clone (3 miles N. of Enniscorthy) Co. Wx. Noon till 4.30 pm.

Bombus sylvarum on Carduus palustris & Knapweed in fields, along railway & in sandpit. ♂♂ & ☿☿ frequent.
B. lucorum ♂♂, ☿☿ & 1 fresh ♀. B. hortorum a few seen.
B. derhamellus ♂♂ frequent. B. lapidarius ♂♂ & ☿☿.
B. agrorum abundant. B. muscorum frequent.
~~[illegible]~~ B. distinguendus a few ♂♂ & large ☿☿.
Psithyrus barbutellus ♂♂ seen.
Colletes ♀♀ on carrot, Reseda lutea, & Achillea millefolium in sand pit.
Andrena denticulata 1♂, numerous ♀♀ on Knapweed
A. coitana ♀♀ on Angelica, &c. Also one divisus gynandromorph!
Sphecodes affinis & divisus ♂♂ & fresh ♀♀ on Wild Carrot on rly. by sand pit.
Halictus rubicundus ♂♂ & fresh ♀♀ very abundant.
H. calceatus, albipes & tumulorum ♂♂, scarce.
H. villosulus ♀♀ in compact colony on "cliff" in sandpit.
Megachile centuncularis 1 very fresh ♀ on Knapweed. (A.W.S.)
1♂ & ♀ on Knapweed (J.F.C.): in sand pit.

9-8-30 cont. Clone cont. Co. Wx.
Mellinus arvensis abundant.
Crabro peltarius a few ♀♀ still at work in sand pit.
Arpactus tumidus 2♀♀ near entrance to pit from rly. as in 1927.
Myrmosa melanocephala 3♀♀, with red heads, with last.
Bethylus fuscicornis 2 very small ♀♀ (?) on "cliff" at colony of H. villosulus.
Odynerus parietum 1♀ in sand pit at Reseda lutea.
Vespa rufa, vulgaris, norvegica & sylvestris ♀♀ & ♂♂ of last two.

Selandria serva ♀♀ on Wild Carrot by rly. Athalia
Tenthredo arcuata. Allantus glabratus 1♂ on Wild Carrot.
About 20 ichns: many seen but not bothered about!

10th August 1930. A warm wet day! A few blinks of sun about 3pm. mostly drizzling rain, very close.
Meeting of the Waters, Avoca, Co. Wi. 11-30 till 4.0 pm.
Left bank of Avonmore for 1/2 mile above ry. bridge at Castle Howard gate, including big stump at bridge = 1.
Right bank along railway to 1st bridge over lane = 2.
Bombus lucorum ♂♂ & ♀♀. B. lapidarius ♂♂ & ♀♀.
B. derhamellus ♂♂. B. hortorum. B. agrorum ♀♀.
Psithyrus barbutellus ♂♂.
Andrena fuscipes ♂♂ very fresh flying over Calluna on ry. embankment above cutting, as in 192 at 2.
A. coitana ♀♀.
Halictus rubicundus ♂♂, worn, & ♀♀. H. albipes & calceatus ♂♂.
H. freygessneri 1 ♂ seen on Solidago at 1.
Nomada rufipes 2 ♀♀ at 2.
Colletes succincta ♂♂ very fresh with A. fuscipes.
Hylaeus confusus ♀ at 2 on Angelica.
Mellinus arvensis common.
Crabro leucostomus ♂ & ♀♀ nesting in stumps at 1.
C. podagricus nesting in stump at 1.
C. chrysostomus ♀ on Angelica at 2.

10-8-30 cont. Meeting of the Waters cont.
Selandria serva ♀ seen. Athalia & Tenthredo arcuata.

Hoplismenus maurus? ♂ taken by J.F.P. on railway just above bridge at Castle Howard gate.
Pimpla inquisitor? ♀. Glypta evanescens ♂. G. mensurator ♀.
Phytodietus - small ♀. Schizopyga atra ♂. Meniscus impressor 1 ♀ on big stump at 1.

Strangalia aurulenta. A large colony now exists in big stumps at 1 (J.F.P.). This being beech & much of the bark still being on many specimens had perished having failed to pierce the bark, which is very hard: some had cut through the bark undoubtedly & many made their escape in places where there was no bark.

11th August 1930. A dull day with some misty showers, till 3pm, then fine & sunny, but too late.
Clara, Co. Wl. Oakwood & sandflat = 1
Upper edge of oakwood along the moors = 2.
Bombus agrorum ☿☿ & two worn ♀♀ still working at 2. B. lucorum ♂♂ & ☿☿. B. muscorum ☿☿ at 2.
Psithyrus barbutellus ♂♂ at 2.
Vespa spp.
No other aculeates seen!
Athalia lugens 1♂. Tenthredo arcuata seen.
Pteronidea dispar ✓RCLP. ♂ taken in wood & small [illegible]
[illegible]
[illegible] sand flat

Automalus alboguttatus taken by J. F. P.
Chelonus 2 " " on Vaccinium
Mesochorus ♂ at 1.
[illegible] ♀ taken on birch trunk behind sand-flat.
Microcryptus [illegible] ♀
Pimpla turionellae ♂. P. [illegible] ♂

12th August 1930. A stormy day with very strong SW wind. Good sun at times.
11-30 - 1pm. Marsh =1 above Pennycomequick Bridge, Enniskerry, Co. Wl. Also on Wild carrot &c along roadside N. of same bridge = 2.
Bombus lucorum ♂♂ & ☿☿. B. lapidarius ♂♂ & ☿☿.
B. agrorum ☿☿. B. muscorum ♂♂ & ☿☿. B. derhamellus ♂♂.
Psithyrus distinctus 1 fresh ♀ on roadside on Thymus.
Colletes picistigma ♂♂ on wild carrot at 2
Halictus villosulus ♀♀ at 2.

Chrysis ignita on carrot at 2.
Athalia very abundant.
Selandria morio ♀ ✓ RCLP.

Most ichs. collected in marsh; rest all on carrot at 2.
Pimpla instigator ♂. P. [illegible] ♂. P. [illegible] ♀?
Pimpla maculator ♀.
Hemiteles [illegible] ♂. Stilpnus [illegible] ♂?
Glypta bifoveolata ♀. [illegible] ♀.

12. 8. 30 cont.

1-30 till 4.0 pm. Deputy's Pass, Co. Wi.
Windy but plenty of hot sun.

Bombi: &c. on Lupine.

Andrena minutula ♂. A. coitana worn ♀♀ seen.

Halictus rubicundus, calceatus, albipes, freygessneri ♂♂, also fresh ♀.

H. punctatissimus, 1 ♂ at top of garden. H. tumulorum ♂♂.

Sphecodes affinis & hyalinatus ♂♂ at top of garden.

Nomada obtusifrons ♀♀.

Trypoxylon clavicerum 1 ♀ at usual stump in garden.

Crabro varius

Mellinus arvensis

[Sp. like ♀ Ceropales seen on bank at top of garden]

Salius exaltatus ♂♂ & ♀♀.

Athalia & Tenthredo arcuata seen.

Lissonota deversor ♀ on stump in garden.

Meniscus impressor ♀♀ on stumps in garden.

Automalus alboguttatus ♂ (J.F.C.).

Schizoloma capitata? ♀

13th August 1930. Drizzling rain all day, heavy fall in glass & gale at night.

In aft. walked along coast N. of Kynochs', Arklow, Co. Wi. Saw nothing of interest except one ♂ Nematine sawfly on Wild Carrot just beyond 2nd point, but missed it!

14th August 1930. Gale continuing, but a fine day & very much hot sun.

Called at Kildavin sandpit on the way home but only took 2♀♀ of Pegomachus & C.

Kilcarry Bridge, Co. Cw.

Glen of Glasharrigh River = 1.

Swamp at foot of stream on left bank of Slaney, 1/4 mile above bridge = 2.

Bombus lucorum, agrorum, hortorum, derhamellus ♂♂, ~~distinguendus~~ seen.

Psithyrus barbutellus ♂♂.

Andrena rosae 3♂♂ (1 small, 2 large); & many ♀♀ seen on Angelica, some quite fresh & without pollen at 2.

A. marginata ♂♂ & ♀♀ abundant on Scabiosa succisa at 2, ♂♂ also seen at each end of bridge.

Sphecodes affinis, 1 ♂ on Angelica at 2.

Nomada argentata = atrata 1♀ flying low over path from river bank at bridge to marsh at 2. ?parasitic on A. marginata.
New to Ireland!

N. rufipes ♀ at 1.

14th August. 1930 cont. Kilcarry cont. Co. CW.
Hylaeus minutus 1♂ on Angelica at 2.
Halictus, as before, but also H. punctatissimus & H. villosulus ♂♂.
Mellinus arvensis abundant.
Crabro chrysostomus, vagus, varius & podagricus seen at 2.
Odynerus sinuatus seen on Angelica at 2.
Pompilus gibbus ♀ on path at 1.

Athalia & Tenthredo arcuata.
Tenthredella atra large ♀ on Angelica at 2.
Phyllotoma vagans ♀ on Alder. (J.F.P.). at 1.

Schizopyga atra ~~[illegible]~~ ♀ swept off small Alders in marsh at 1.
Pimpla detrita? ♂. & ♀
Lissonota bellator ♀ 1 smaller ♀ with [illegible] ovipositor.

Schizoloma capitata ? ♀ in case. (J.F.P.)
Ophion luteus ♀ (J.F.P.)

15th August 1930. Arklow Head & N. end of Askintinny Bay, Co. Wl.
Bombus lucorum, agrorum, muscorum, lapidarius, ~~[illegible]~~ derhamellus several ♂♂, distinguendus seen.
Colletes succincta fresh ♂♂ & ♀♀: latter nesting on clay cliff at S. side of Head.
Hylaeus hyalinatus 1♀ on Crepis.
H. minutus ♀ on Leontodon at S. side of Head on shore.
Andrena gwynana ♂♂ & ♀♀, latter fresh, at foot of cliff.
Halictus rubicundus, albipes, punctatissimus 1♂ on Crepis.
H. villosulus ♀♀ very common & still working; also 1♂ on Crepis.

Salius exaltatus ♀♀.
Pompilus gibbus ♂♂ & ♀♀ on path up S. side of Head. One very large & one small ♀ seen fighting, rolling over each other like two boys but apparently not doing each other any harm.

Athalia & Tenthredo arcuata
Pimpla examinator, 1 very black ♀. P. turionellae seen.
Lissonota bellator common. L. errabunda ♀♀.
Glypta ceratites ♀♀ seen. G. mensurator type ♀ & var. with long ovipositor ♀♀ frequent: ? ♂ of former ~~same sp.~~ taken.

15. 8. 30. Arkintiny cont.
Pimpla brevicornis ♀♀ at Erica.
Pimpla vesicaria var.? 6♂♂, 1♀ (others seen) on wild Carrot by field side on N. slope of Arklow Head (cf. ♀ taken at Ennereilly on 12. 8. 30): not brunnea or brevicornis!
P. maculator small red ♀.

Exetastes guttatorius common on carrot.
Banchus volutatorius ♂. Triclistus laticentris ? ♂.

Red admiral very com. ?immigrant seen on Carduus lanceolatus

[J.F. Perkins left Arklow at 8.40 p.m.!]

16th August 1930. A glorious day, with no wind & much hot sun!
Returned to Kilcarry Bridge, Co. CW. to ~~look~~ for more Nomada argentata. On arrival at 12-15 a.m. I took a ♂ & then a ♀ on path from R. Slaney to marsh on left bank of Glashareigh River where ♀ was taken on 14th Aug. Then searched Scabious where Andrena marginata ♀♀ were abundant, but no Nomada seen. Afterwards none seen on path though searched for several times, but after lunch 2♀♀ were taken along top of field above main road W. of bridge at gap into second field. Two ♀♀ Andrena (fresh)

16-8-30 cont. Kilcarry, Co. CW, cont.
marginata seen at path where ♂ & ♀ taken, but none seen ~~to~~ arrive with pollen or ~~to~~ depart & none seen at top of field across road. Therefore I think there must be some other nesting site for marginata & if this could be located the Nomada might be found in plenty, as the Andrena is so abundant. Also as all the specimens of the Nomada are so fresh, it seems likely that more would be seen a few days later.
List of spp. seen or taken. Bombus terrestris fresh ♀ in marsh.
Bombus as before, but add B. jonellus ♀ on Calluna.
Andrena marginata abundant on Scabiosa succisa in marsh & 2♀♀ seen about burrows along path from River Slaney; ♂♂ practically disappeared already!
A. coitana ♀♀ on Scabiosa succisa & other flowers.
A. denticulata ♀♀ on Knapweed, ♂: at top of field above road.
A. minutula ♂ on path through gorse between marsh & Slaney.
Halicti as before
Sphecodes divisus ♀ seen on path.
Nomada argentata. ♂ & ♀ (1♀ fide RCLP.) on path, 2♀♀ at top of field across road. See notes above.
N. rufipes. ♂ & ♀ at end of path near Slaney.

16-8-30 cont. Kilcarry, Co. Cw. cont.

No other aculeates of interest seen, except Myrmica schencki ♀♀ as usual.

[illegible] [illegible] ♂ √ RCLP. taken on path.

Ichneumon ~~[illegible]~~ ♀ ?

Protichneumon laminatorius a ♂ in wet upper end of marsh amongst mint, with wings so frayed that it seemed disinclined to attempt flight.

[illegible] ♀ on mint in marsh at same place.

Lissonota bellator ♂♂.

Glypta longicauda very large & fine ♀.

Two Tryphonids.

Schizoloma capitata ? ♀.

16-8-30. 3-30 - 4-0 pm. Stopped at several places between Coolattin & Tinahely, Co. Wi. Where much likely ground but nothing strange seen. At a bank in field were many ♂♂ of common Halicti (rubicundus, calceatus &c) & here one ♀ Sphecodes [illegible] was taken.

17th August 1930. Drizzling rain all day: did nothing!

18th August 1930. Left Arklow at noon & drove home, arriving 1-45 pm. Misty morning, cool at Arklow, muggy hot in Dublin; turning to rain in aft. & terrific downpour in evening & night!

END OF ARKLOW TRIP. One Braconid taken in motor!

19th August 1930. A fine day, but strong W. wind & heavy showers in middle of the day.

11-30 till 1-0 pm. Sand-pit at Knockanaroon, Dub. as before.

Bombus lapidarius ♂♂ & ♀♀. B. lucorum 1 or 2 ♀♀ only seen.

B. muscorum several faded ♂♂. B. agrorum ♂♂ (fresh) & ♀♀.

Psithyrus rupestris 1 ♂ taken by George. B. barbutellus ♂ seen.

Halictus albipes & rubicundus ♂♂ seen.

Nomada sp.? A large ♀ twice seen, black & yellow with red legs: looked like N. marshamella or even more like N. goodeniana. Very windy & heavy showers prevented me seeing it again.

As a ♂ was taken at Portrane Co. Du. by J. F. Perkins on 23.8.35 this ♀ was no doubt N. goodeniana as I felt sure at the time. A.W.S. Aug. 1935.

Crabro IV-maculatus ♀♀. C. chrysostomus ♀♀ & ♂ seen.

C. leucostomus ? seen. C. varius ? ♀

Pemphredon shuckardi ♂♂ & ♀♀.

19/8/30 cont. Knockmaroon cont. Co. Dbl.
Vespa vulgaris ♀♀ abundant about Coltsfoot, &c.

Athalia & Tenthredo arcuata frequent.
~~Phaeogenes~~ ~~Athalia~~ ? 1 ♀ taken on car in Phoenix Park on return journey. ? = Pristiphora pallidiventris yellow form of ♀♀ (? n. sp.)! RCLP.
[illegible]
Glypta bicornis var. rostrata 2 ♀♀ on Pimpinella.
[illegible]

24th August 1930. A fine day, but rather windy, after a week of gales & heavy rain.
Powerscourt deerpark, Co. Wi. 11.0 AM till 1 PM.
All taken within 1/4 mile of gate & on right bank of river, in "the hollow of the logs".
Bombus agrorum 1 or 2 workers only.
Psithyrus barbutellus 1 ♂.
Halictus rubicundus fresh ♂♂ & ♀♀. H. calceatus ♂♂.
H. albipes & freygessneri ♂♂ (& ? ♀♀ of both spp.).

24.8.30 cont. Powerscourt deerpark cont.
Halictus tumulorum ♂♂ & ♀♀. H. leucopus ♂♂
All on Ragwort!
Sphecodes monilicornis ♂♂ & 1 fresh ♀ on Ragwort by road above hollow & close to the "Horse-Shoe Pit".
S. [illegible]
Nomada marshamella 2nd brood! 3 ♂♂ on Ragwort.
Mellinus arvensis abundant.
Crabro sp.? 1 seen on Trypoxylon log.

Athalia & Tenthredo arcuata. 1 ♂ of latter taken.
Lissonota variabilis 1 ♀ on log. L. bellator ♂♂ abundant & all flying about rushes &c in swamp.
Sten-Ichneumon culpator 2 ♀♀, others seen, on Carduus arvensis, in marsh.
Colpognathus celerator ♂ & many ♀♀ seen on C. arvensis in marsh.

25th Aug. 1930. Evening! Garden at 14 Clareville Rd. Harold's Cross, Co. Dbl. AWS.
Stenichneumon culpator ♀. Clistopyga incitator ♀. Pimpla [illegible] ♂.

26th August 1930. A very hot day, mostly sunny but very windy in aft. (SW wind).
Afternoon 2-30 till 4-30 pm.
Sandpit by the Liffey at Knockmaroon, Co. Dub. as before. Too windy for collecting! 2-30 - 3-30.
Bombus lucorum, agrorum, lapidarius & muscorum ♂♂ ♀♀ seen.
Psithyrus rupestris & barbutellus, 1♂ each on Scabious.
Halicti as before.
Sphecodes ~~[illegible]~~ monilicornis ♂♂ & ♀♀ very fine & fresh, on Carduus arvensis flowers in field W. of pit.
Nomada marshamella 3♂♂ (2nd brood).
Crabro chrysostomus & leucostomus ♀♀ seen.
Pemphredon shuckardi common.

~~[illegible]~~ Glypta bicornis var. rostrata ♀ with red segments

[illegible] ? sp. n. ? 1♀, 2 jointed antennae. AWS 6.10.937.

26/8/30 cont. Lucan demesne sandpit, Co. Dub. till 4.30 pm
Very hot sun & good shelter in sandpit, but
wa[illegible] rather.

Ovenreagh Sixtowns. G. Barnett.
Recd. Aug. 1930.

1st box. Andrena clarkella, 1♀.
Halictus albipes, 21 ♂♂.

2nd box.

Andrena fucata 1♂, 2♀♀.
A. saundersella 1♀.
A. subopaca 3♀♀ ?
A. coitana ♂♂ & ♀♀ common.
A. tarsata 5♀♀.
Halictus calceatus 1♀.
H. albipes 1♀.
Nomada ruficornis 1♀.
Crabro varius (or palmipes) 1♀.
Dolerus aeneus ? ♂ & ♀.

Bom
Psith
Hal ... on spp. as before.
Sphe ... C. arvensis flowers
S. aff
Nom
Tent
Mel ... ms & many
... celerator ♀♀
& ... ♀
[illegible] black spot in [illegible]

26/8/30. In evening took ... aiden at Mayfield & next morning a ♀ Hemiteles [illegible] on shelf in bathroom.

Owenreagh Sixtown. G. Barnett.
Recd. Aug. 1930.

1st box. Andrena clarkella, 1♀.
Halictus albipes, 21 ♂♂.

2nd box.

Andrena fucata 1♂, 2♀♀.

A. saundersella 1♀.

A. subopaca 3♀♀ ?

A. coitana ♂♂ + ♀♀ common. ♂ + ♀

A. tarsata 5♀♀. ♀

Halictus calceatus 1♀.

H. albipes 1♀.

Nomada ruficornis 1♀. ♀

Crabro varius (or palmipes) 1♀.

Dolerus aeneus ? ♂ + ♀. ♂♀

26th August 1930. A very hot day, mostly sunny but very windy in aft. (SW wind).
Afternoon 2-30 till 4-30 pm.
Sandpit by the Liffey at Knockmaroon, Co. Dub. as before. Too windy for collecting! 2·30-3-30.
Bombus lucorum, agrorum, lapidarius & muscorum ♂♂ ♀♀ seen.
Psithyrus rupestris & barbutellus, 1♂ each on Scabious.
Halicti as before.
Sphecodes ~~sp.~~ monilicornis ♂♂ & ♀♀ very fine & fresh, on Carduus arvensis flowers in field W. of pit.
Nomada marshamella 3♂♂ (2nd brood).
Crabro chrysostomus & leucostomus ♀♀ seen.
Pemphredon shuckardi common.

~~[illegible]~~ Glypta bicornis var. rostrata ♀ with red segments

[illegible] of [illegible] ? 1♀ [illegible] AWS 6.10.37.

26/8/30 cont. Lucan demesne sandpit, Co. Dub. till 4·30 pm.
Very hot sun & good shelter in sandpit, but not much out after previous weeks' bad weather.
Bombus: nothing of interest seen.
Psithyrus rupestris 2♂♂.
Halictus nitidiusculus ♂ & other common spp. as before.
Sphecodes monilicornis ♂♂ frequent on C. arvensis flowers
S. affinis ♂
Nomada marshamella, large ♂.

Tenthredo arcuata

Melanichneumon sanguinator ♀♀ on C. arvensis & many other ichn. also including Colpognathus celerator ♀♀ & Stenichneumon culpator. Phytodietus ♀
[illegible] ♂ v. large. [illegible] ? [illegible]

26/8/30. In evening took small Anomalid in garden at Mayfield & next morning a ♀ Hemiteles areator [illegible] ? on shelf in bathroom.

Portrane, Co. Dub.

31st August 1930. A beautiful sunny day, after a wet one: cool NE breeze rather affected collecting in the dunes in afternoon. Not much out.

11-30 till 2-30. Cliffs &c from S. Martello Tower to Portrane Asylum = 1.

2-30 till 4-30. Dunes ½ mile S. of Martello Tower = 2.

Bombus lapidarius ♂♂ & ♀♀. B. agrorum (♂♂?) ♀♀.

B. sylvarum a very worn specimen (? a small ♀ or a very a large ☿), very faded with no trace or orange in tail. So far as I know this is the first specimen taken in Co. Dublin. [No B. lucorum seen!]

Psithyrus distinctus 1 ♂ seen.

Halictus rubicundus 1 fresh ♀. H. calceatus & albipes ♂♂.

H. tumulorum ♂♂. H. leucopus ♂ & ♀ all at 1.

H. "smeathmanellus" Irish form. 6 ♂♂, 1 fresh ♀ & 1 faded ♀ at 1.

Sphecodes affinis? ♂ & ♀ at 1.

Pompilus rufipes 1 fresh ♂ at Martello Tower on carrot.

Pompilus gibbus, P. plumbeus & Tachysphex pectinipes seen.

Odynerus 3-marginatus ♂♂ & ♀ at 1.

Bethylus fuscicornis ♀ at 2.

Phaeogenes [illegible] ? ♀ on carrot at 1

— [illegible] ♀ at 1.

31-8-1930 cont. Portrane, Co. Dub. cont.

Glypta bicornis var. rostrata ♀ at 1 on carrot.

Lissonota bellator ♂♂ & ♀♀ seen. L. sulphurifera ♂ ? at 1.

L. cf. [illegible] ? ♀ at 2 on carrot.

Pimpla $\overset{4}{3}$ ♀♀, small, varying from spuria towards arctica at 1.

P. brevicornis ♀ at 1. Bassus [illegible] ♂♂ at 1.

Exolytus (?) small ♀ at 1. Homocidus ♀ at 1. Promethes pulchellus ♀ at 1.

Thersilochus ♀ at 1. Mesoleius ? at 1. Angitia at 1.

Spilichneumon occisorius ♂♂ common at 1.

1st Sept. 1930, aft. S. of Bray Head, Co. Wi.

A fine sunny day in Dublin, but mist on hills extended to Bray Head & hid sun. E. wind. Worked from Wind Gate to sea near Cable Rock in search of Halictus smeathmanellus, a ♀ of which taken by old reg. there on 25.9.21 seems to be the true English smeathmanellus.

Bombus agrorum ♂♂ & ♀♀, B. lapidarius ♂♂ & ☿☿, both spp. common.

B. pratorum 1 ♂ on Erica. B. muscorum a few faded, (♂♂?).

Halictus calceatus & albipes a few ♂♂ seen. Glypta [illegible] ♀

Glypta ceratites ♀. Mesochorus ♂.

Lasius flavus? ♀♀ [illegible] by old reg. [illegible] ♀.

7th Sept. 1930. A dull showery morning, turning fine about mid day with much sun in afternoon, after bad weather for two days before. Drove to Athy, then south past Ardree Mill to overgrown sandpit in angle of road SE of Farmhill where collected for a ~~couple of~~ three hours. Then to railway bridge at Spring Lodge, 2½ miles S. of Athy where in triangular field W. of wood are good banks round field for bees. Then via Kilkea & Belan Ho. (both on Greese R.) to sand pit on old road 1¼ miles S. of Ballitore & just S. of Willowbrook Ho. All in Co. KD.

11.30 till 2.30. Overgrown sand pit S. of Ardree & Farmhill, 2 miles S. of Athy, Co KD. = "Athy (1)"

Bombus lucorum nest still working. B. agrorum ♂♂ & ♀♀.
B. muscorum a few ♂♂. B. lapidarius ♂♂ & ♀♀.
B. derhamellus 1 ♂.
Psithyrus campestris dark ♂♂. Ps. rupestris ♂♂,
Ps. distinctus 1 ♂.
Halictus lativentris 1 fresh, large, ♂ on Sonchus oleraceus flower at N. end of field. H. albipes & calceatus ♂♂.
Crabro chrysostomus ♀ at stumps in marsh opposite pit.

7.9.30 cont. "Nr. Athy (1)" cont.

Lissonota sulphurifera ♂. P. cylindrator & Perithous ♀. D. praerogator.
P. pleuranellus ♀ Exephanes occupator var ♂
Thersilochus 2 spp.

7.9.30 cont.

2.30 till 3.0 pm. Field E. of ry. bridge (& W. of wood) at Spring Lodge, 2½ miles S. of Athy. Co. KD. = "Athy (2)"

Bombus spp. as at 1. Also Psithyrus spp. same as at 1.
Halictus rubicundus ♂♂ & fresh ♀♀. H. albipes & calceatus ♂♂.
H. lativentris 1 ♂ on ragweed at E. side of field next wood.
H. tumulorum ♂♂ seen. H. nitidiusculus 1 ♂.
Sphecodes sp. (? affinis) 1 ♂.
Mellinus arvensis ♂♂ & ♀♀.
Crabro varius ♀.
Athalia lineolata & Tenthredo arcuata seen.
Pimpla instigator small ♀.
Dyspetes praerogator.

Very good ground & wood should pay working!

7.9.30 cont. 4.0 till 5.0 pm.

Small sand pit & field of Scabiosa succisa S. of Willowbrook, 1¼ miles S. of Ballitore by the old road, Co. KD.

Bombus lucorum 1♀ agrorum, muscorum & lapidarius ♂♂ & ♀♀ seen.

Psithyrus rupestris ♂♂.

Andrena minutula 1♀ 2nd brood in sand pit.

A. marginata 1 very dark ♀, not very fresh, on Scabious in field.

Halictus rubicundus & calceatus [illegible] ♂♂ seen.

Sphecodes monilicornis 1♀ in pit, ♂ seen.

Mellinus arvensis ♀♀.

Crabro varius ♀ in sand-pit.

(a district well worth working!)

Pezomachus fasciatus? ♀ in sand-pit.

10th Sept. 1930. A fine day, but rather dull in afternoon, owing to S.E. wind & misty cloud on hills. Powerscourt demesne, Co. Wi. Almost all specimens taken on one oak tree on top of right bank of river about 300 yards below the deerpark gate (the same place as collected in on 13/9/29!).

10.9.30 cont. Powerscourt demesne, cont.

Bombus agrorum a few only seen.

Vespa vulgaris ♀♀ common.

Halictus albipes ♂♂ seen. Bethylus fuscicornis on oak.

Crabro chrysostomus 1♀ seen. C. varius ♂♂ & ♀ at oak.

Mellinus arvensis ♂♂ & ♀♀ at oak, rare.

Athalia lineolata ♂♂ & ♀♀ on oak.

Tenthredo arcuata seen on Angelica.

Emphytus serotinus 1♂ at oak.

Pimpla oculatoria ♀♀. [illegible]

P. maculator ♀.

Polysphincta pallipes 1♀ on oak.

[illegible] 1♂ on oak.

[illegible]

[illegible]

[illegible]

= Gyrocampa affinis

14th Sept. 1930. A fine day, after a very wet one: a good deal of sun & very little wind (N.).
Valley of the Rye Water at ~~Ballykelly bridge~~ Kellystown Sandford Bridge, E. of Carton Co. KD = 1; and small quarry 1 mile E. of Kellystown at Shaughlin's Well, also Co. KD.

Bombus agrorum a few faded ☿☿ & ♂♂ at 1 & 2.
Halictus "smeathmanellus" (Irish form). A few ♂♂ & many ♀♀ (some fresh & some 1929 (hibernated) & very worn), on Leontodon, Hypochoeris, Taraxacum & Sonchus oleraceus flowers on Sandford Bridge, in field & bank E. of bridge on right bank of river & nesting in sandpit 100 yards N.E. of the bridge on left-bank of river. Practically the only Halictus seen on rt. bank of river.
H. rubicundus ♂♂ & ♀♀ in sandpit at 1.
H. calceatus a few ♂♂ seen at 1.
H. tumulorum ♂♂ & ♀♀ seen at 2.
Athalia lineolata at 1 & 2.
Mesochorus ♂ at 2: the only ichneumon seen!!!
Sphecodes [illegible] ♂♂ & ♀ at sandpit.

17th Sept. 1930. A dull day, mild, with SE–E wind, before depression & terrific rainy night.
Sandpit on road N. of Sallins, Co KD. = 1
sandpit on railway at same place = 2.
Much Scabiosa in latter place & very good ground if only one could get a good day.
Bombus lapidarius a few ♂♂. [no ☿☿ seen!]
B. lucorum a few ♂♂. B. muscorum a few ♂♂.
B. agrorum abundant ♂♂, ☿☿, & ♀♀ seen on Vicia sepium flowers at 1 & on Scabious at 2.
Psithyrus rupestris several ♂♂. P. barbutellus, 1 ♂.
Ps. campestris 1 dark ♂ at 2. ["Bumbles" nearly all at 2]
Halictus rubicundus, & albipes a couple of ♂♂ of each at 2.
No other aculeates seen!
Lissonota commixta ♂♂. (& ~~[illegible]~~ L. cylindrator ♀) on carrot at 1.
Tryphon elongator at 1 (not taken!).
Homocidus pulchellus? tarsatorius? ♂♂ (& other small spp. & Braconids all on thistles at 1) very common.
H. nigritarsus ♂ & ♀.

[illegible] [illegible] ♂ ♂. [illegible] ♂. [illegible] yellow [illegible]

21st Sept. 1930. 10-30 till 12-30 noon. A fine sunny morning but very windy with rising glass after much terrific rain.

Powerscourt demesne, Co. Wi. Just below deerpark gate on right bank of river. Most collected at top of river bank amongst nettles, grass, docks &c (=1) or at first oak tree on top of right bank nearly opposite Valclusa Ho. gate (= 2).

Bombus agrorum & Vespa vulgaris. One or two of each seen.

Emphytus ~~serotinus~~ serotinus ♂♂ very common at oak at 2.

Athalia lineolata seen.

Polysphincta multicolor ♀ on oak at 2.

Pimpla maculator ♀ at 1. P. flavicornis ♂. P. iv-dentata ♀.

Promethes pulchellus ♂ & ♀ at 1. Picrostigeus recticauda ♀?

Cteniscus gnathoxanthus ♀ (?). 4.

24th Sept. 1930 aft: 2.30 – 4.0 pm. A fine day with much sun though windy & some showers. W wind.

Glenasmole, Co. Dub. Everything collected about Brady's house, either in the old garden (=1) (a few only) or at flowers of Polygonum sachalinense near "the river" (= 2).

Bombus agrorum several seen at Scabiosa succisa 2.

Mellinus arvensis ♀♀ at 2.

Pimpla (Troctocerus) elegans ♂ at 2.

Pimpla iv-dentata 3♂♂, 1♀ at 2. P. turionellae ♂ at 2.

P. maculator ♀ at 2. Lissonota sulphurifera ? ♂.

Mesoleius (Lagarotus) semicaligatus ? ♂ at 1. Exochus pictus ♀ ?

Promethes ~~albicincta~~ sulcator 5 ~~8~~♂♂ at 2. P. pulchellus 1♂ at 2.

28th Sept. 1930. A fine day after a couple of dull & cold ones, wind N. but considerable sun.
11.30 till 2.30 pm. Ballyheavy quarry, Co. Wi.
Bombus agrorum a few ♂♂ & ♀♀.
B. lapidarius 1♂ reported by George & Hugh.
Halictus calceatus 1♂ seen.
Vespa vulgaris a few ♀♀ seen.
About a dozen ichs & Braconids taken including
Diaborus lituratorius on alder

In March 1936 R.B. Benson agreed that the bred ♀♀ named luteus by R.C.L.P. were really N. willigkiae Stein recorded as British by Benson in E.M.M. Nov. 1935. A.W.S.

Caliroa annulipes 1♀ em. 11.5.31: larva probably on Salix! RCLP.
Nematinus fuscipennis ✓ & N. luteus ✓RCLP, em. May–June 1931.
Used Bignell beating tray for first time & brought home a couple of dozen sawfly larvae including:—
Croesus septentrionalis: large larvae on alder.
C. varus ✓RCLP. 2 or 3 on alder: green with black dots: 1♀ em. 23.4.31.
Platycampus luridiventris ✓RCLP, flat, green, with black paired dots, on alder. Em. May–June 1931.
[illegible] green sp. on alder = Nematinus 2 spp. [illegible]
Platy. sp. on Salix & Alder.
[illegible] on Alder with white [illegible] = Empria pallimacula?
Small green spp. on Alder & Salix = Pteronidea sp. n. Irish v. RCLP. 1♂ em. 9.5.31. = fuscarinae Benson, 1934

See [illegible] 30.

28.9.30 cont. 3 till 5 pm.
Ballylusk, Co. Wi.
A few spp. of ichs & Braconids taken: mostly at oak in field at top of old lane.

Two sawfly larvae beaten from Salix & Birch: the former green with pink stripe[x] on back, the latter all green & injured

x = Pteronidea [illegible] probably [illegible]

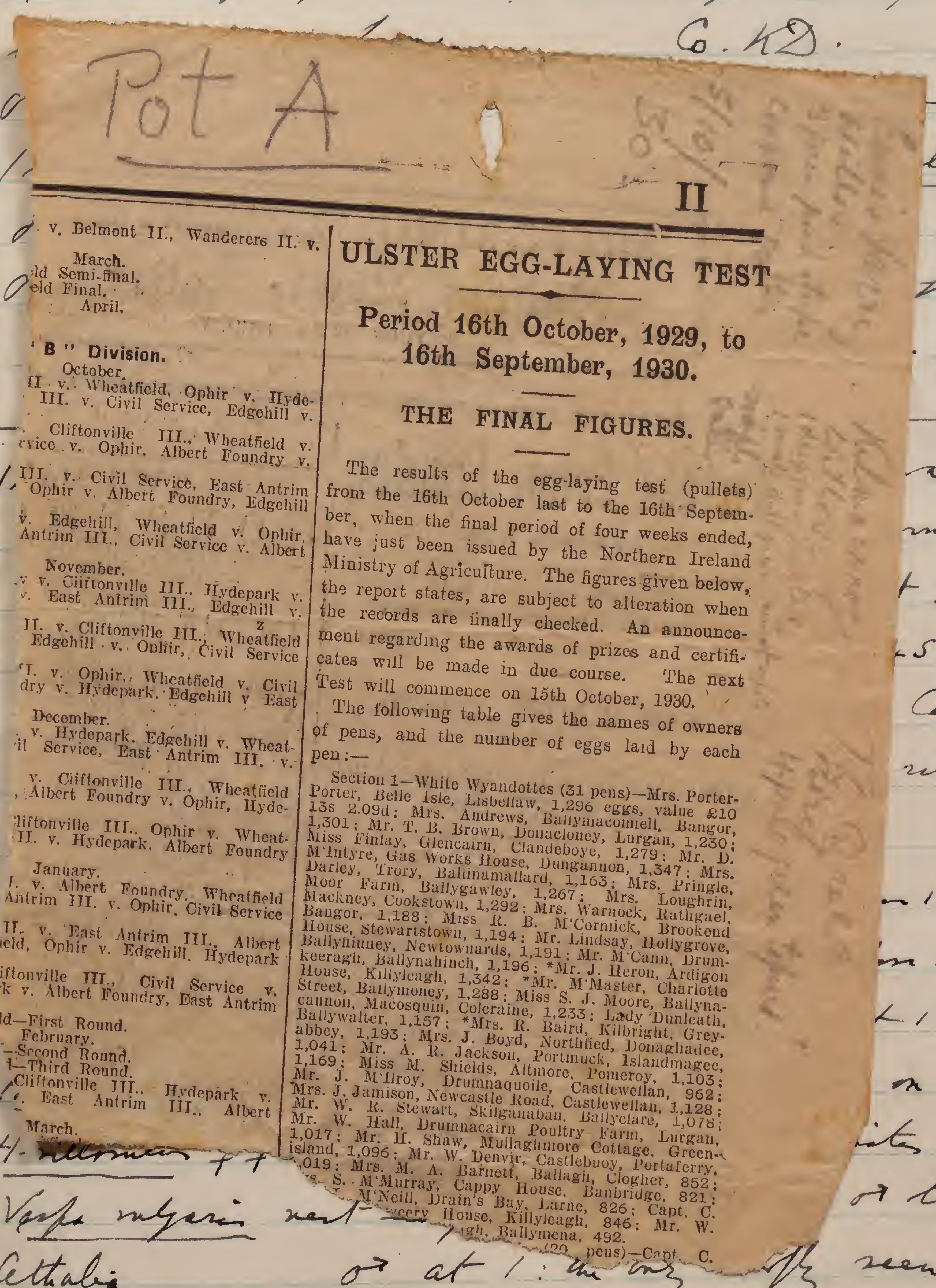
1st Oct. 1930. A dry dull, foggy, afternoon. E. breeze.
3.0 till 5.0 pm. Slade Brook, Upper Glenasmole, Co. Du. 700–900 ft.
Spent the afternoon beating Salix aurita & cinerea bushes, birch &c for sawfly larvae. About 7 or 8 spp. taken (only a few of each except a lot (2 series) of Pteronidea [illegible] *: green with small black spots & yellowish head & tail. Many small & few larger ichs. &c beaten into tray & captured with fingers:—
Pteronidea melanaspis v. maculigera 1♀ em. 2.5.31 ✓RCLP.
Pontania leucosticta ♀ ✓R.B. Benson.
[illegible] ♀♀ very abundant on Salix aurita &c.
Homocidus tarsatorius 1♂. H. = collinus Stelfox, co type, ♀. A.W.S. 1940. Orthocentrus fulvipes 6♀♀ ~~[illegible]~~, 1♂ & ♀♀.
O. sp.? 1♂
* 1♀ found on return from England on 28/4/1931.

5th Oct. 1930. A fine morning but very windy. Beating for sawfly larvae on Salix, &c in Enniskerry Marsh (=1), Kilmacanoge Marsh (=2) & The Quill Channel Marsh (=3), Co. Wi. 10-30 till 12-30 noon. In museum in aft.
At 1 I took three green larvae with pink dorsal stripe: ? Pteronidea [illegible], also 1 or 2 deep green larvae which escaped.? All on Salix.
At 2. One deep green with pinkish tail & 1 dull green with minute spots, latter very small. Salix
At 3. On Birch: 3 or 4 pale green spatulate larvae.
One small ich. beaten out of Salix at 2
& 1 large Anomalid seen on Angelica but missed at 1.
[One small sp. taken in motor on ~~way~~ arrival home!
= Orthocentrus radialis; ♀?]

Pontania sp. (probably P. bella: R.C.L.P. in litt. 6.4.32) 1st em. 6.6.31.

6th Oct. 1930. A showery day, but sunny intervals: very stormy SW-W winds. Day after the disaster to airship R. 101 in France!
George's 1st monthly holiday!
Drove to Newbridge & then towards Rathangan

but not so far, then round Hill of Allen, Rath or
C. KD.



Pot A

II

v. Belmont II., Wanderers II. v.
March.
ld Semi-final.
eld Final.
April.

"B" Division.
October.
II. v. Wheatfield, Ophir v. Hyde-
III. v. Civil Service, Edgehill v.
Cliftonville III., Wheatfield v.
rvice v. Ophir, Albert Foundry v.
III. v. Civil Service, East Antrim
Ophir v. Albert Foundry, Edgehill
v. Edgehill, Wheatfield v. Ophir,
Antrim III., Civil Service v. Albert
November.
v. Cliftonville III., Hydepark v.
v. East Antrim III., Edgehill v.
II. v. Cliftonville III., Wheatfield
Edgehill v. Ophir, Civil Service
I. v. Ophir, Wheatfield v. Civil
dry v. Hydepark, Edgehill v East
December.
v. Hydepark, Edgehill v. Wheat-
il Service, East Antrim III. v.
v. Cliftonville III., Wheatfield
Albert Foundry v. Ophir, Hyde-
liftonville III., Ophir v. Wheat-
II. v. Hydepark, Albert Foundry
January.
f. v. Albert Foundry, Wheatfield
Antrim III. v. Ophir, Civil Service
II. v. East Antrim III., Albert
ield, Ophir v. Edgehill, Hydepark
liftonville III., Civil Service v.
rk v. Albert Foundry, East Antrim
ld—First Round.
February.
—Second Round.
—Third Round.
Cliftonville III., Hydepark v.
East Antrim III., Albert
March.

ULSTER EGG-LAYING TEST

Period 16th October, 1929, to 16th September, 1930.

THE FINAL FIGURES.

The results of the egg-laying test (pullets) from the 16th October last to the 16th September, when the final period of four weeks ended, have just been issued by the Northern Ireland Ministry of Agriculture. The figures given below, the report states, are subject to alteration when the records are finally checked. An announcement regarding the awards of prizes and certificates will be made in due course. The next Test will commence on 15th October, 1930.

The following table gives the names of owners of pens, and the number of eggs laid by each pen:—

Section 1—White Wyandottes (31 pens)—Mrs. Porter-Porter, Belle Isle, Lisbellaw, 1,296 eggs, value £10 13s 2.09d; Mrs. Andrews, Ballymaconnell, Bangor, 1,301; Mr. T. B. Brown, Donacloney, Lurgan, 1,230; Miss Finlay, Glencairn, Clandeboye, 1,279; Mr. D. M'Intyre, Gas Works House, Dungannon, 1,347; Mrs. Darley, Trory, Ballinamallard, 1,163; Mrs. Pringle, Moor Farm, Ballygawley, 1,267; Mrs. Loughrin, Mackney, Cookstown, 1,292; Mrs. Warnock, Rathgael, Bangor, 1,188; Miss R. B. M'Cormick, Brookend House, Stewartstown, 1,194; Mr. Lindsay, Hollygrove, Ballyhinney, Newtownards, 1,191; Mr. M'Cann, Drumkeeragh, Ballynahinch, 1,196; *Mr. J. Heron, Ardigon House, Killyleagh, 1,342; *Mr. M'Master, Charlotte Street, Ballymoney, 1,288; Miss S. J. Moore, Ballynacannon, Macosquin, Coleraine, 1,233; Lady Dunleath, Ballywalter, 1,157; *Mrs. R. Baird, Kilbright, Greyabbey, 1,193; Mrs. J. Boyd, Northfied, Donaghadee, 1,041; Mr. A. R. Jackson, Portmuck, Islandmagee, 1,169; Miss M. Shields, Altmore, Pomeroy, 1,103; Mr. J. M'Ilroy, Drumnaquoile, Castlewellan, 962; Mrs. J. Jamison, Newcastle Road, Castlewellan, 1,128; Mr. W. R. Stewart, Skilganaban, Ballyclare, 1,078; Mr. W. Hall, Drumnacairn Poultry Farm, Lurgan, 1,017; Mr. H. Shaw, Mullaghmore Cottage, Greenisland, 1,096; Mr. W. Denvir, Castlebuoy, Portaferry, 019; Mrs. M. A. Barnett, Ballagh, Clogher, 852; s. S. M'Murray, Cappy House, Banbridge, 821; M'Neill, Drain's Bay, Larne, 826; Capt. C. ecry House, Killyleagh, 846; Mr. W. gh, Ballymena, 492.
20 pens)—Capt. C.

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t!
5 till 3.30pm.
Castle Howard
rises above
n 1♀ on my. at 1.
on 1 on my.
t 1 on my.
on Leontodon
ites.
H-~~[illegible]~~ ♀♀
Vespa vulgaris nest
♂ taken on wy.
Athalia
♂ at 1: the only fly seen!

P. T. O.

Pot A

3/10/30

v. Belmont II., Wanderers II. v.

March.
ld Semi-final.
eld Final.
April.

' B " Division.

October.
II v. Wheatfield, Ophir v. Hyde-
III. v. Civil Servicc, Edgehill v.

Cliftonville III., Wheatfield v.
rvice v. Ophir, Albert Foundry v.

III. v. Civil Service, East Antrim
Ophir v. Albert Foundry, Edgehill

v. Edgehill, Wheatfield v. Ophir,
Antrim III., Civil Service v. Albert

November.
v. Ciiftonville III.. Hydepark v.
. East Antrim III., Edgehill v.
z
II. v. Cliftonville III., Wheatfield
Edgehill v. Ophir, Civil Service

I. v. Ophir, Wheatfield v. Civil
dry v. Hydepark, Edgehill v East

December.
v. Hydepark, Edgehill v. Wheat-
il Service, East Antrim III. v.

v. Ciiftonville III., Wheatfield
, Albert Foundry v. Ophir, Hyde-

liftonville III.. Ophir v. Wheat-
II. v. Hydepark. Albert Foundry

January.
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Cliftonville III., Hydepark v.
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March.

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(20 pens)—Capt. C.

MOTORING. Motor Notes by "Verax" appea
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THE CADET CORPS

Will Live Despite "Government's Effort to Kill Them."

The "Morning Post" says:—The Cadet Corps, although the Government has attempted to kill them, are not to be allowed to die. A new organisation has been formed, as our military correspondent reports, to continue the good work. Lord Allenby, never slack in the public service, is to be the head of a strong Federal Council. The organisation is on a territorial basis, each cadet battalion being under the charge of its county committee, over which the Lord Lieutenant of the county concerned will preside. Thus a movement which encourages patriotism and service in our youth will be maintained in spite of official neglect and political hostility. The pacifist and the little Englander still persist in the fallacy that disarmament secures peace, and that by turning the British Lion in
a British sheep all danger of war may b
They were preaching exactly
on [illegible] eve

TWO DAY
HOUSEH
PIANOS, STECK PIANOLA P
WOOLLEN KNEE RU
FITTINGS, A
IN THE MART, 3
On WEDNESDA
Commenc
VERY FINE UPRIGHT
"Steck" Pianola Piano;
American Organ; 10-stop Orga
and Portable Gramophones;
Cinematograph Machine; Ten
and Rexine; Odd Chesterfield
in crimson plush; Twelve Od
Oak Drawing-room Settees; T
and Rocking Chairs; Inlaid M
China Cabinets; Mahogany C
Rosewood Music Cabinet; Mah
Mantel Clocks; Brass and Oxid
and oak; Mahogany Dinner W
and Walnut Telescopic Dining
Fine Walnut Billiards-Dining
Dining Suites; Odd Couches an
case Top; Twenty Overmant
Chairs; Grandfather Clock, in
in walnut, burr-walnut, oak
Wardrobe; Ten Odd Wardr
Beds, in walnut, burr-wa
Couch; Bed Chair; Cam
gany, and deal; Twenty

5th Oct. 1930. A fine morning but very windy.
Beating for sawfly larvae on Salix, &c in
Enniskerry Marsh (=1), Kilmacanoge Marsh (=2)
& The Quill Channel Marsh (=3), Co. WI
10-30 till 12-30 noon. In museum in aft.
At 1 I took three green larvae with pink dorsal
stripe: ? Pteronidea curtispina, also 1 or 2 deep
green larvae which escaped. All on Salix.
At 2. One deep green with pinkish tail & 1 dull
green with minute spots, latter very small. Salix
At 3. On Birch: 3 or 4 pale green spatulate larvae
One small ich. beaten out of Salix at 2
& 1 large Anomalid seen on Angelica but missed
at 1.
[One small sp. taken in motor on ~~way~~ arrival home!
= Orthocentrus radialis ♀?]

Pontania sp. (probably P. bella: R.C.L.P. in litt. 6.4.32) 1♂ em. 6.6.31.

6th Oct. 1930. A showery day, but sunny
intervals: very stormy SW-W winds. Day after
the disaster to airship R. 101 in France!
George's 1st monthly holiday!
Drove to Newbridge & then towards Rathangan

but not so far, then round Hill of Allen, which we
ascended, & home. Co. KD.
On N. side of Hill of Allen saw Bombus agrorum
(several) (1♂ at least) & 1♂ each Halictus calceatus
& H. freygessneri on Ragwort flowers.
On return journey caught an ich. in motor just
W. of Naas, Co. KD, at canal bridge.

12th October 1930. A beautiful day! Very warm sun
most of the time & only a few stray clouds in morning, but
very cool W. breeze. Plenty of flowers out!
Meeting of the Waters, Avoca, Co. WI. 11-45 till 3.30pm.
Scrub on rt bank of river by ry. bridge above Castle Howard
gate = 1. Hedge of field on left bank of river above
next ry. bridge over river = 2.

Bombus agrorum ♂♂ at 1 & 2. B. lucorum 1♀ on ry. at 1.
Halictus rubicundus 1♂, several fresh ♀♀ above 1 on ry.
H. calceatus 1♂ & 1♀ on ry. at 1. H. albipes 1♀ at 1 on ry.
H. freygessneri ♂ & ♀ on ry. above 1. } all Halicti on Leontodon
H. villosulus ♀♀ on ry. above 1. } or other composites.
Vespa vulgaris nest in full swing at 2 & 1 ♂ taken on ivy.
Athalia ♂ at 1: the only sawfly seen!

P. T. O.

12.10.30 cont. Meeting of the Waters cont.
Amblyteles subsericans ♀ seen at 1.
Pimpla instigator large ♀ seen at 1.
P. brevicornis ♀ at 2. P. detrita ♂ ♀ at 2.
[illegible] ♀

Polysphincta multicolor ♀ at 2.
Homocidus pictus 1♀ at 1. H. pallipes 1♂ at 1. Promethes pulchellus 1♀ at 1.?
Bassus tricinctus 3♀♀ at 1.
[illegible] ♀ [illegible]
[illegible] ♀

Lagarotis (Mesoleius) debitor ♂ on thistle at 2; also a black ♀ (?at 2).
Stenomacrus ventralis 1♀ at 1. also other small [illegible]
[illegible] ? 1♀
[illegible]

[Pontania 2♂♂ (probably P. bella: see R.C.L.P. in litt. 6.4.32).
? when bred]

15th Oct: 1930. 2-30 till 4-30 pm. The third very warm humid day in succession. Fine in Dublin after 10 AM, but wet in Powerscourt till just before our arrival. Very dull.
Powerscourt demesne, Co. Wi.
1 = just above Tinnehinch gate. 2 = rt bank of river just below the deerpark gate.

15-10-30 cont Powerscourt demesne, Wi.
No Bombus or even Vespa seen.
Emphytus serotinus ♀ flew into motor close to the middle lodge, just above it: it was discovered on screen by Hugh!
[illegible]
Several small black [illegible]
[illegible] at 2 [illegible]
Black & black [illegible]
running on brick wall at 2.
[illegible]
[illegible]
Stenomacrus ventralis 1♂

19th Oct: 1930. A cold wet day, with floods & gales in afternoon. Not out at all!

22nd Oct: 1930 Afternoon. After a fine morning it turned to rain just as we arrived at Enniskerry, Co Wi. Saw one ichn. & Vespa vulgaris ☿☿ on ivy blossom.

26th Oct. 1930. A dull day: with rain later. Cold NW wind in morning but mild in shelter.

Devils' Glen, Co. Wicklow (Demesne & Glen) with George. 11.30 till 4 pm.

Hymenoptera (i.e. small species) very abundant !!!

Ichneumon deliratorius ♀ at ivy blossom in glen.

Pimpla maculator ♀ beaten out of Spruce at top of glen.

P. turionellae several ♀♀ swept in glen.

P. iv-dentata ♀, with pale red hind tibiae!

Several species of Plectiscidae, Atractodes, Proctotrypids, Braconids &c. swept in demesne & glen.

Mesochorus vittator? sp. ♂. Astiphromus strenuus? ♂, sp. ♀.

Stenomacrus ventralis? 5♂♂, 1♀.

Orthocentrus fulvitergum ~~protuberans~~? 1♀

Alexeter sectator (= rufipennis) (1♂?)

Opius ♂, near O. pallipes? [illegible]

Formica rufa nest very dilapidated & few ants seen; but several beaten out of Spruce 15 yards below nest!

29th Oct. 1930. A dull, damp, warm day before a depression: had five minutes collecting before rain came on.

Bohernabreena, Co. Dll. Beaten off ivy blossom by the fallen blocks of conglomerate just above Mrs. Doyle's.

1 Proctotrypid & 6 Ichneumonids.

Stenomacrus ventralis 1♂, 3♀♀.

Orthocentrus protuberans. 2♀♀.

9th Nov. 1930. A warm morning, cold afternoon, very wild with rain blowing in the wind (W) most of the day. Walked with Hugh from Whitechurch bus via St. Columba's & back by Sandyford road to Rathfarnham, Co. Dll.

Vespa vulgaris ♀♀ on ivy blossom & no doubt others had I had the beating tray with me.

11th Nov. 1930. A fine sunny day, but with very cold W. wind. 2-30 till 4.0 pm.
Glen above Enniskerry (½ a mile), Co. Wl.
About a couple of dozen ichs. & braconids beaten off ivy blossom, hazel, oak &c. (mostly off ivy!).

Stilpnus
Stenomacrus ventralis 1♂, 3♀♀.
Orthocentrus ♂ ?
– Plectiscus niger Först ? (= communis var. Thoms.).
Sp. ? nr. Plectiscus, [illegible], Shrubs, 1♀ with very long terebra.
Pezomachus ♀ beaten out of ivy.

Dacnusa

15th Nov. 1930. A wet morning & a cold clear afternoon!
Drove D.K. Kevan (Edinburgh) to Mountmellick, Qc. to look for Vertigo genesii &c. Passed some very nice ground for insects between Ballybrittas & Mountmellick canal, round about Emo Park.
No hymenoptera seen during the day.

16th Nov. 1930. A glorious day, with hot sun, but cold N. breeze.
Drove D.K. Kevan via Clonsilla to Leixlip to get Amphipeplea glutinosa in Royal Canal.
No hymenoptera seen!

23rd Nov. 1930. A beautiful day, after a very stormy wet day & bitter cold night. First snow on the hills & Seecawn almost white. Much sun up till 2 pm & quite hot in shelter. With E.Ó'h.
Drove via Nun's Cross to Clara, Co. Wl.
Vespa vulgaris ☿☿ very busy at ivy blossom near Nun's Cross.
In oak wood below Clara Bridge & especially behind the sand flat & about the Crony Burn ichs. abundant at ivy blossom & also beaten off Vaccinium &c. Ó'Mahony & I also got about a dozen in rotten logs in hibernation.
Stenichneumon defraudator: 3♀♀ in hibernation.
Exephanes occupator ♀♀ hibernat.
[illegible] of Ichneumonidae (♂♀) in hibernation.

[illegible] beaten off ivy &c. P.T.O. →

23 Nov. 1930 cont. Clara woods, Co. Wi.
Beaten off ivy, Vaccinium & ...
Pimpla rufata. ♀♀ & P. iv-dentata 2♀♀ all off ivy.

P. turionellae 2♀♀ on ivy
Polysphincta multicolor 1♀ on ivy.

[illegible] 2♀♀ of [illegible]

Orthocentrus protuberans? 2♀♀. O. (corrugatus??) 4♂♂, 2♀♀?
O. radialis 1♀ ??
O. (repentinus?) 1♂ like "corrugatus" but less yellow on face &?
Stenomacrus vertebralis ♂ & ♀. S. laricis? 1♀.

1 Braconid & 3 Proctotrupids [illegible].

30th November 1930. A beautiful morning after 3 days frost & frosty night (Dublin in thick fog!). Kilmashogue, Co. Du. Walked up lane from K. school & across moor & back by St. Columba's. Many wasps on ivy behind college! Beat the following spp. off ivy blossom in lane above school & behind college.

Dacnusa areolaris?? 4 ex. Aspilota pallidipes? 1♀
Hemiteles spp 4♀♀ Phygadeuon? 1♀
Orthocentrus protuberans 2♀♀
Cynipid ?

3rd December 1930. A dull day, mild & calm (foggy in Dublin) after a couple of dull dripping days. Worked ivy on trees above Mrs Doyle's at foot of Glenasmole (Bohernabreena), Co. Du.

Dacnusa areolaris? very abundant & both sexes ♀♀ [illegible]
D. sp.? same but larger & longer [illegible] 1♀.
Proctotrupids 3♀♀.
Cynipids 2.
Carpophagid (Anzilus?) 1♀.
Stenomacrus ~~vertebralis~~ 6♂♂, 9♀♀, semi-testaceous sp. with pale yellow stigma.
Thersilochus? 1♀

7th December 1930. A cold clear day after a wet night! 11.0 till 12-30 noon. Enniskerry & the Dargle, Co. Wi. All beaten off ivy blossom, but this too wet for good results.

Hemiteles ♀ between the roads N. of Enniskerry.

Stenomacrus vertebralis? ♀.
Dacnusa 3♀♀
Cynipid, ♀
} Tinnahinch Ho. demesne at head of the Dargle.

[Also took 1♀ Cynipid at the Co. Dublin side of the Scalp on way home!].

Vespa vulgaris at Enniskerry & Tinnahinch, ♀♀ & also 2♂♂ at latter place.

10.12.30. A cold stormy afternoon!
Slade of Saggart, Co. DU.
Beat out of ivy blossom
Stenomacrus vertebralis 1♀
~~Orthocentrus~~ corrugatus? 1♂. ? St. [illegible]

14th December 1930. A very cold day with heavy, shower about 11·30 AM., after a couple of cold stormy & wet days.
Drove via. Phoenix Park to Lucan & home, Co. Du.
Stopped at the "Furzy Glen" in the park, where some good ivy still in flower on old thorn trees, but only one clump yield hymenoptera: namely, Stenomacrus ventralis 2 ♀♀, 1 Proctotrupid ♀ & many Dacnusa areolaris (? all ♀♀). Too early, windy & cold!
Then drove on beyond Knockmaroon & worked the east end of Luttrellstown wood (Woodlands), where in one "beat" from ivy in kind of old quarry I had many many dozen if not some hundreds of Dacnusa on the tray: and only 1 Stenomacrus ventralis.
Nothing else seen & none taken from this place, but the place might pay in summer!

21st December 1930. A nice day after a slight frost at night, but rather dull. Drove to the ~~colt~~ col between "Carrigolligan" & The Scalp, Co. Dublin.
Beat ivy blossom in lane behind Kingston Lodge (=1) & on S. side of the col above Ballyman (=2).
Dacnusa ♀, Stenomacrus ♀ &
Bracon ♀ & Chalcid at 2.

1931.

1st. Jan. 1931. A fine frosty day with blue sky & warm sun. George with measles, so Hugh & I drove up to Brady's in Glenasmole, Co. Dub. & walked round upper reservoir. On way home stopped & beat some ivy below calcerate cliffs behind Mr Doyle's & got 2 ♀♀ Dacnusa

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2nd Jan. 1931. Another perfect winter day! Drove Hugh to Newcastle Co. Wi. & walked S. for a mile & back. Shook roots of Psamma for ichs. but only got a few beetles.

3rd Jan. 1931. Another perfect winter day, also! Drove Hugh to Killiney Co. Dub. & ascended hill from sea side. On way up through Victoria Park I beat a few bits of ivy blossom & got 3 ♀♀ Stenomacrus [illegible]

4th Jan. 1931. A still finer day! Drove Hugh & M.B. (Margaret Buchanan) to Arklow Head, Co. Wi. & walked over head to Arkintiny; afterwards called at "Merton" & drove home. Nothing collected except liverworts (Riccia 2 spp.)

Hugh developed measles the day after

8th Jan. 1931. The eighth frosty day! Ice just bearing but depression approaching from N.W. & after a lovely morning with hot sun, very cold & windy by 11 AM. Worked ivy in old lane behind St. Columba's Coll., Co. Dub. but only got 1 ♀ Dacnusa.

22nd. February 1931. A lovely day, but strong W. wind. Drove to Ballyhenry quarry, Wi where spent 1½ hours in hot sun & shelter. Two Chalcids & beetles beaten out of Gorse (in flower) but no other hymenoptera seen. Then drove on to Nun's Cross & walked to foot of Devil's Glen & back.

15th March 1931. The second of two beautiful spring days, after very bitter cold & windy fortnight. Drove to Ballyhenry quarry Wi & spent a hour there (11.0–12.0 noon): a few willows out along road but none out there: saw only 1 ♂ Meloë proscarabaeus but no Bumbles & no Andrenas. On way home, 12.30, called at sandpit at bottom of Glen of the Downs where saw one ♀ Honey Bee on a dandelion, but nothing else.

22nd March 1931. A bright sunny day with cool breeze from S. With A.A.L.

11.30 till 2.0 pm. (at Ballyhenry quarry (=2) & marsh (=3), Co. Wi. & Kilmartin Channel (=1)) A.A.L. said he heard Chiff Chaff at 1 & 2 I did not!

Bombus lucorum a few ♀♀ seen at willows at 1 & in field beyond 2 & opposite 3. One ♀ working!

B. terrestris 2 ♀♀ just out on willows in field opposite 3.

Andrena clarkella ♂♂ common at 2.

Andrena sp.? ♂♂ seen at 1 which looked like praecox or apicata, but may have been clarkella.

Peacock Butterfly at 1 & Tortoiseshell at 2.

22.3.31 cont. afternoon. Very hot sun!

N.W. edge of scrub at N. end of Deputy's Pass, Wi. 2.30 – 3.30 pm. Here is very good ground along small stream gully along N. edge of old wood!

Andrena praecox ♂♂ flying over dead bracken (A.A.L.)

A. clarkella ♂♂ & 1 fresh ♀. Latter twice seen on gorse stem & ♂♂ round same & settling on tree trunks &c. in hot sun.

Amblyteles = eupatorius var.? black & yellow ♀ on side of bank.

Ichneumon (♀ like suspiciosus) seen near same place.

25th March 1931. A fine sunny day but with cold E. wind. In morning drove to Lucan via Knockmaroon & home via Clondalkin, Co. Dn. Nothing out at any place visited & no Bumbles on willows along Liffey at Knockmaroon, though these in full flower. Near Esker, S. of Lucan, discovered a fine disused sand-pit & also nice ground in valley of Griffeen ~~River~~ W. of sand-pit. Marsh Marigold & Viola sylvestris out here!

25.3.31. afternoon Glensink & Enniskerry, Co. Wi. Very sheltered & hot sun!

1 = bank at E. side of marsh between roads N. of Enniskerry

2 = sand-cliff facing S. 1 mile up Glensink (= Glencullen)

Bombus lucorum a few ♀♀ seen at willows at 1. There 2 willow bushes well out by stream

Andrena apicata ♂♂ common on trunks of trees &c at 1. Also V. small ♂ at 1 & 2.

A. praecox 1 ♂ taken on great cliff of glacial sands at 2.

A. gwynana. Very fresh ♂♂ at 1. Chiff-chaff seen & heard.

A. nigroaenea 1 ♂ seen at 2, almost certainly this species.

29th March 1931. One of the worst possible days! After nearly a fortnight's beautiful weather soft warm rain came on on Sat. morning (28th) & during the night a cold "jam" formed & today we had half a gale from S.E. with sheets of cold rain & sleet. Drove with A M Grogan to Ashford & home.

3rd April (Good Friday) 1931. A dry cold day with strong N. wind & very occasional sun bursts, after a dreadful week of six wet days & six almost wet nights (cold, sleet, snow in mountains, & great floods everywhere) which completely killed off all the bees tempted out previously.

Drove to Ballyhenry Quarry, Co. Wi. 11.30 till 12.30

Andrena apicata one or two ♂♂ seen & possibly one ♀.

A. clarkella several ♀♀ running on stones, &:

Bombus terrestris 1 dead ♀ clinging to gorse!

Then drove on to Meeting of the Waters, Avoca, Wi & stayed till 3.30: very cold here & practically no sun. ~~Saw~~ Took two Andrena $\left.\frac{\text{apicata}}{\text{praecox}}\right\}$ 1♂ of each ~~[illegible]~~ on ♀ willow in ry. cutting below Castle Howard. Collected several old Trichiosoma lucorum cocoons on birch at same place, two of which had very tiny holes in them, unlike those made by any parasite I have experience of.

On way home stopped & examined very good ground in channels on south side of Carrick Mt. near the "water splash" between Ashford & Glenealy!

Willow Warbler
= Ballyhenry Sand
alder grove; Sand
martin (?) hawking
over river below
Meeting of the Waters;
Wood anemone &
W. Sorrel just
out below Castle
Howard.

9th April 1931. A glorious day.

Left hotel at Greystones 10.30 AM & walked round Bray Head to Bray.

Along old railway S of Bray Head saw a few aculeates on Coltsfoot, Dandelion & Daisy; & in gully at commencement of old path one head on ♀ Salix.

Bombus lucorum ♀♀, B. jonellus ♀♀ on Coltsfoot.

B. agrorum ♀♀.

Andrena nigroaenea 1♂ A. minutula ✓! 1♂

Lissonota carbonaria ♂. on Salix, 1♂.

This ♂ agrees in all respects, except the black base of coxae, with the ♀.
A.W.S. 22.8.1931.

9th 10th April 1931. Crossed via Liverpool to Berkhamsted, Herts, staying with Charles Oldham.

11th April 1931. A very hot day, with sun morning & evening but dull during mid day. Went by bus to Tring & collected along Grand Union Canal, N of bridge on road from Tring to Bulbourne = 1; thence to Aldbury Downs, collecting along road, in small chalk pit = 2 & on foot of down where Anemone Pulsatilla just coming into flower; then up slope to cut down beech wood where some nice Salix caprea in flower = 3. All in Herts (= HT.)

Bombus lapidarius ♀♀ frequent at 1 & 2.
B. terrestris ♀♀ abundant at 1 & 2.
B. lucorum ♀♀ not so common as last but seen at 1, 2 & 3.
B. agrorum a few ♀♀ seen.
B. derhamellus 1 ♀ at 1.
Andrena gwynana ♂♂ & ♀♀ common, many stylopised!
A. albicans 1 or 2 ♂♂ only at 1.
A. minutula ♀♀ (RCLP). many at 1 & a few at 2
Last one seen on Cardamine hirsuta at 1 & on Lamium album on road to 2.

A. nigroaenea ♂♂ stylopised. A. fulva 1 ♂ at 1 very fresh
A. dorsata (VRCLP) at 2
Halictus rubicundus 1 small ♀. H. nitidiusculus 1 ♀ at 1. H. fulvicornis ♀♀ common at 1 & 2. H. morio 1 ♀ at 2.
Osmia bicolor 1 ♂ at 2
Sphecodes hyalinatus small ♀ with H. fulvicornis.
Rhogogaster aucupariae ♂♀ in lane near Tring to 1
Dolerus rugulosus ♂ & ♀ at foot of down at 2.
D. puncticollis } fide ♂ with bent at 2.
nigra ?} RCLP. ♀ crawling on down at 2.
? Tiphia ♂ in chalk pit at 2.
Sciapteryx costalis 1 beautiful ♀ crawling on short turf of downs at 2 near old ~~small chalk~~ rifle range pits.

Saw two Swallows; & Anemone Pulsatilla just coming into bloom at 2.

Sunday 12th April 1931. A fine bright morning but wind too cool & strong. No sun after noon! Collected all over downs (=1) & round Salix caprea in cut-down beech wood (=2) at Aldbury Owers, Herts. With C.O. & Benson.

No new Bombi seen today.

Osmia bicolor ♀ taken by Benson at 1.

Andrena dorsata? ♂. at 1. A. parvula ♂♂ ♀♀ at 1 & 2.
[illegible]

Halictus fulvicornis ♀♀ at 1.

Andrena gwynana ♂ at 2, ♀ at 1. A. gravida ♂ at 1.

A. chrysosceles ♂♂ & ♀ at 1.

Dolerus haematodes 2♀♀ on open downs at 1

D. rugosulus ♂♂ & ♀♀ at base of downs at 1

D. puncticollis ♀ at 1

Dolerus ~~vestigialis~~ ?

Rhogogaster aucupariae ♂♂ in lane to 1.

Empria at 1.

Blennocampa at 1 (Benson)

12.4.31 cont.

Anorchid common over downs at 1.

Thereutodes sp.? at Salix at 2.

Ophion sp. very deep red & polished ♂♀ at 1 (C.O.)

Brachypteron brightus at 1 (Owen).

13.4.31. Spent day in London

14.4.31. Left London by 10.30 AM for Newton Abbot, Devon. In afternoon had short walk with R.C.L. & John Perkins, but too late & only Bombus terrestris 1♀, agrorum 1♀ & Anthophora pilipes 1♂ seen. The last is the first Anthophora I have ever seen alive & looked more like a big Hover Fly than I should have thought possible.

15th April 1931. A dull, chilly, windy day & no sun till late in afternoon.
Went by bus with Dr. R.C.L. Perkins & two sons to Lastmoor (Torquay reservoirs), E. of Chudleigh, Devon.
Bombus lucorum & terrestris only seen. ♀♀
Formica rufa & fusca.
Myrmica scabrinodis.
Anomalid sp. at bracken by reservoir.
Acanthocryptus nigritus ♂? ♀ in grass by same.
Proctotrupids, Cynipids, & some Coleoptera (including Longhorn) beaten out of conifers &c by R.C.L.P.
Pimpla maculator ♀♀ commonly beaten out of spruce.
Dolerus aeneus 1♀ beaten out of spruce.
Rhogogaster aeneiformis ? ♀♀ on docks in lane.
Amblyteles crispatorius var? ♀ taken by J.F. Perkins.

? 1♂ Phygadeuon afflictor Grav.
(black ink [illegible] has 26 jointed antennae (3rd to 11th joint cylindrical, 12th to 14th with raised flange on inside, 15th to 28 very short; one [illegible] at end of 14th joint!)

16th April 1931. Andrena spinigera 2♀♀ & A. praecox 1♀ taken by A.W.S. at 9 AM. near Clay Pits at west side of Newton Abbot, Devon. Also 1♀ [illegible] nidulans. R.C.L.P.

16th April 1931. A cold day with strong NE wind but considerable sun in morning & short sun bursts throughout the day. Very little out.
9.0 AM. Took Andrena spinigera 2♀♀ & [illegible] nidulans 1♀ at Salix in clay pit at west side of Newton Abbot.
11.0 AM. till 3 pm. Bovey Heath, with Dr. R.C.L. Perkins & two sons.
Bombus terrestris, lucorum & jonellus (1) ♀♀.
Anthophora pilipes 1♂ (J.F.P.).
Andrena albicans ♂♂, A. nitida ♂ & ♀ (R.P.).
A. clarkella ♂ & ♀. A. dorsata ♂♂ & ♀♀ frequent
A. praecox ♀♀.
Halictus calceatus 1♀ H. morio ♀♀ H. punctatissimus 2♀♀
Nomada fabriciana ♀♀ – N. leucophthalma ♀♀.

Sphex hirsuta ♀ (hibernated) (R.P.).
Pompilus viaticus hibernated ♀♀.
Formica rufa & nest. F. exsecta many nests. F. fusca.
Lasius niger
Tapinoma erraticum 1♀ on sandy bank: afterwards lost!
Leptothorax acervorum ? ♀ (R.C.L.P.)

16.4.31 cont. Bovey Heath, Devon.
Dolerus puncticollis ♀ (RCLP.)
Rhogogaster aucupariae ♀ seen.
Amauronematus [illegible] ♀ (R.P.).
Pimpla maculator ♀ (bidens ?) RCLP

Pezomachus ♀.

Two small beetles under bark (J.F.P.)

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17th April 1931. A cold windy day & with considerable but short sun bursts in morning.
11 till 1 pm.
Bradley Wood, Newton Abbot, Devon.
with R.C.L. & John Perkins.
Bombus terrestris several ♀♀. B. lucorum 1 or 2 ♀♀.
Andrena albicans ♂♂ & 1 fresh ♀. A. dorsata ♂♂ & ♀♀.
A. cineraria ♂♂ & a few ♀♀. ? A. nitida 1 ♂ on Taraxacum
A. minutula 1 ♀.
Halictus laevigatus one very fresh ♀ (RCLP)

Labelled | Newton Abbot SD. AWS. 17.4.31 |

17.4.31 cont. Bradley's Wood, Newton Abbot, Devon.
1 Dacnusa sp ? & 1 small ♂ [illegible] taken by R.C.L.P.

Agriotypus armatus Curtis. A ♂ of this curious insect was taken by John F. Perkins (& given to me!) on a gravel flat by the river. It was obtained by splashing water over the gravel to drive out beetles.
[Benson tells me that Mr Grant has taken it near London & is studying its life history.]

18th–20th April 1931. Very wet & stormy till 20th, which I spent at B. Museum

22nd April A fine morning, but little sun after we left The Moat, Coombe, Surrey.
10 AM. Andrena flavipes ♂♂ common on terrace at The Moat.
Bombus terrestris, B. lucorum, B. agrorum.
1 ♀ of last with blackish thorax.
6 pm B. lapidarius 1 ♀ & B. hortorum 1 ♀.

P.T.O

22/4/31 cont.
12 noon till 2 pm. Windsor Park, Berks.
1 = Pond near Ranger's Lodge. mostly dull & no real sun except short burst at 1.
2 = sand-pit near Blacknest gate, Virginia Water.
Bombus terrestris & lucorum ♀♀ seen at 2.
Andrena dorsata ♂♂ & ♀♀ (?) at 2.
A. minutula ? 1♀ at 2.
Pompilus viaticus 1♀ at 2.
Dolerus madidus ? 1♂ at 1.
D. sp. 1 ? 3♂♂ at 1.
D. sp. 2 ? 1♀ at 1.

22/4/31 aft. Very cold wind, no sun.
3.30 pm. E side of Frensham Gt. Pond, Surrey.
Andrena fulva 1 very fresh ♂ on Salix.

23rd April 1931. Went to Deal, E Kent. In afternoon went to see H. C. Huggins at Margate & there collected Andrena fulva ♂♂ & ♀♀ in the public park & in his garden at Cliftonville; also took a ♂ A. nigroaenea at corner of Lower Northdown Rd.

24th April 1931. A very sunny day but strong southerly wind – almost a gale at times. Went by bus to Canterbury & collected in old brick yard =1, along railway =2 to Whitstable & in fields =3 south of railway about ½ a mile NNE of station.
Bombus terrestris ♀♀ & ? one ♀, B. hortorum ♀♀ on Lamium album,
B. agrorum 1♀ seen.
Anthophora pilipes ♂ seen at Lamium album.
Andrena albicans ♂♂ & 1 fresh ♀ seen.
A. tibialis 2 very fresh ♀♀ at 3 ??♂♂ also.
A. nitida ♂♂ & fresh ♀ at 1 & 2 ??. A. flavipes ♂ 1♀ (at 3?)
A. gravida ♂♂ & ♀♀ ? abundant at 3, ♀♀ very fresh.
A. varians ?? 1 very fresh ♀ at 3. A. dorsata 1 fresh ♀.
A. nigroaenea ?? ♂♂ at 1, 2 & 3. Andrena ♂ ? sp.
A. gwynana ♂♂ & 1 fresh ♀ at 1 & 2.
A. minutula ?✓ A. chrysosceles 1♂.
A. subopaca ?
Nomada (? sp. like lineola) seen at 2 on Taraxacum.
Halictus calceatus several fresh ♀♀ at 2 & 3.
H. minutulus ?✓ several fresh ♀♀ at 1 & 2.
H. morio ♀♀ abundant at foot of walls near 3.

Pamphilus sp. 1 at 1.

25th April 1931 Gale & rain from S nearly all day. In afternoon walked from S Foreland to Deal but saw no hymenoptera.

26th April 1931. A dull day with only short hints of sun & strong cold NW wind.
Blean Wood, near Canterbury, E. Kent, with H. C. Huggins.
Bombus terrestris & lucorum ♀♀ seen.
B. pratorum ♀♀ on Sallow in Blean Wood.
B. agrorum 1♀ with much black on thorax.
Andrena clarkella worn ♀♀ on Salix.
Nothing else seen during day, except a few Andrena praecox at bank near Canterbury, where taken on 24.4.31.

29th April 1931. Left Deal at 10.20 AM & returned to Dublin. Midlands of England very greatly flooded & showing signs of abnormally bad weather.